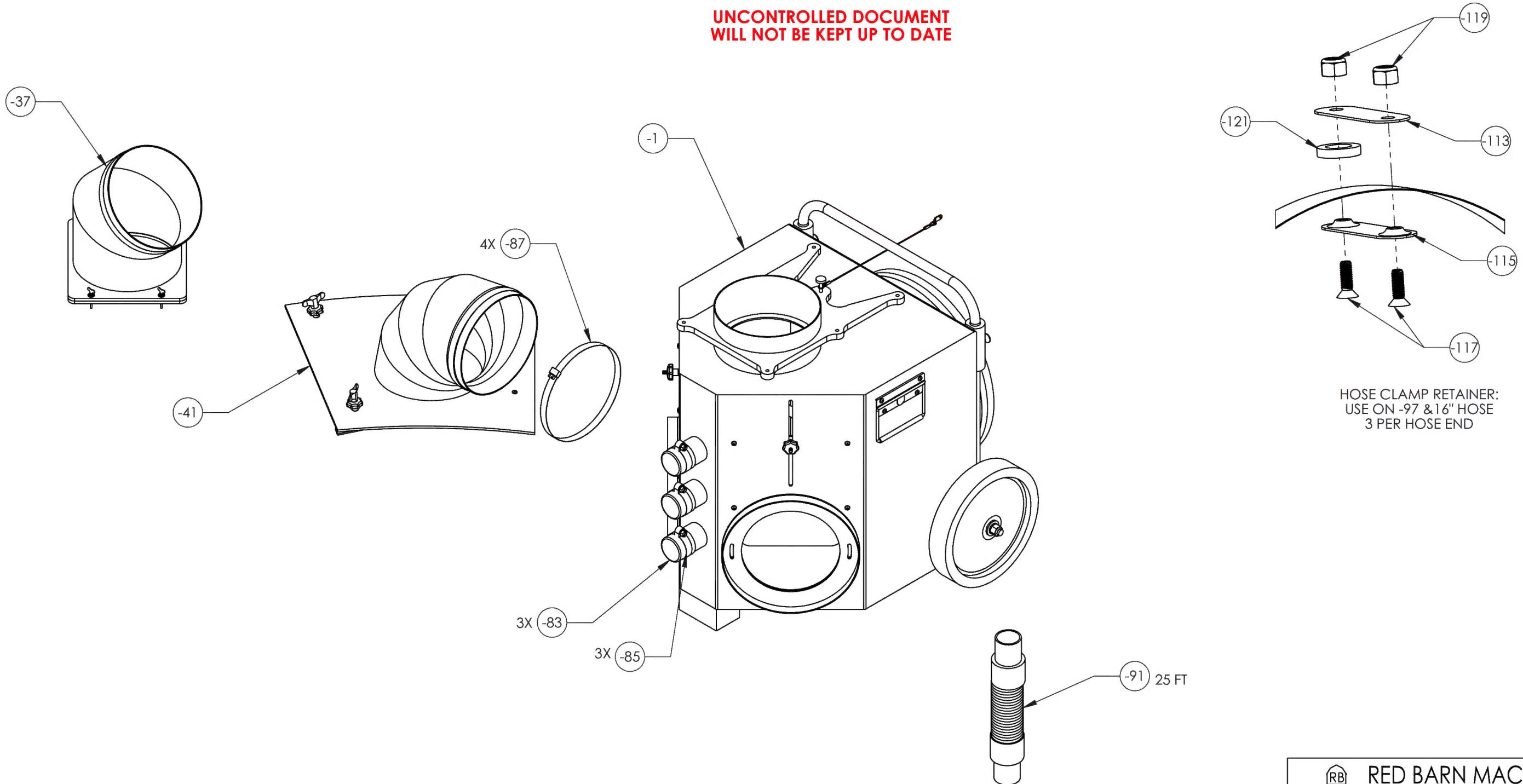


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HOSE CLAMP RETAINER:
USE ON -97 & 16" HOSE
3 PER HOSE END

 RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400	
REV 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS $.XXX \pm .005$ FRACTIONS $\pm 1/32$ $.XX \pm .01$ ANGLES $\pm .5^\circ$ $X \pm .1$	
DRAWN BY: GILBERT APPROVED <i>D. Weil</i>	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	DATE 2/4/2011
SHEET 1 OF 32	

ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.						
				X		-1	-1	1	SPLITTER BOX ASSY				3
				X	1		-3		SPLITTER BOX WELDMENT	ALUMINUM			4
				1			-5		BOX	ALUMINUM	1/8 TH		5
				2			-7		ADAPTER RING	ALUMINUM	.08 X 1 X 33-1/8		6
				2			-9		ADAPTER FLANGE	ALUMINUM	1/8 X 10-1/2 X 10-1/2		7
				3			-11		SMALL DUCT TUBE	ALUMINUM	2 X 1/8 WALL X 3-1/8		8
				1			-13		AXLE TUBE	ALUMINUM	Ø3/4 X .083 WALL X 20-1/2		9
				2			-15		HANDLE TUBE	ALUMINUM	Ø1-1/2 X 4-1/8		10
				1		B/O	-17		TOP GATE VENT	ALUMINUM	MCMASTER-CARR #1788K16		4
		X		1			-19		SUPPLY DUCT WELDMENT				11
		1					-21		DUCT RING	ALUMINUM	.08 X 4 X 50-1/2		12
		1					-23		DUCT FLANGE	ALUMINUM	1/8 x 19-1/8 x 19-18		13
		1					-25		HANDLE	304 S.S.	Ø3/4 X 16 GA X 61		14
		1					-27		AXLE SHAFT	304 S.S.	Ø1/2 X 26-1/2		15
		8					-29		SIDE GATE BRACKET	ALUMINUM	1/8 X 1 X 12		16
	X	2					-31		SIDE GATE WELDMENT				17
	1						-33		SIDE GATE	304 S.S.	16 GA 8.0 X 11.0		18
	1						-35		LOCK STUD	S.S.	1/4-20 X 1-1/2 MCMASTER-CARR #93190A546 (NEEDS MODIFIED)		19
	X						-37	1	AVIONICS DUCT ASSY				20
	1						-39		AVIONICS DUCT	ALUMINUM			21
	X						-41	1	ENGINE DUCT ASSY				22
	1						-43		ENGINE DUCT	ALUMINUM			23
	1						-45		RETAINER	ALUMINUM	1/2 X 2 X 7-3/8		24
X	2						-47		LATCH WELDMENT				25
1							-49		LATCH PLATE	304 S.S.	1/4 X 3/4 X 2-3/8		26
1				B/O	-51				STUD	S.S.	1/4-20 X 3 MCMASTER-CARR #90575A559		25
	2	B/O	-53						SPRING PLUNGER	STEEL	1/4-20 MCMASTER-CARR #2375A312		3
	2	B/O	-55						RUBBER WHEEL	STEEL/RUBBER	10 WHEEL MCMASTER-CARR #2331T23		3
	2	B/O	-57						LOCK NUT	S.S.	1/2-13 MCMASTER-CARR #90715A165		3
	4	B/O	-59						FLAT WASHER	S.S.	Ø1/2 ID X 7/8 OD MCMASTER-CARR #98017A210		3
	1	B/O	-61						FOOT PAD	NEOPRENE	4 X 2-1/2 X 2 MCMASTER-CARR #9306K34		3
	2	B/O	-63						SIDE HANDLE	S.S.	RIED #NSH-160		3
	2	B/O	-65						BOLT	S.S.	5/16-18 X 7/8 MCMASTER-CARR #93190A582		3
	2	B/O	-67						FLAT WASHER	S.S.	Ø5/8 MCMASTER-CARR #91525A229		3
	2	B/O	-69						LOCK WASHER	S.S.	5/16 MCMASTER-CARR #92147A030		3
2		2	B/O	-71					KNOB	S.S.	MCMASTER-CARR #8558K1		3/22
		2	B/O	-73					SPRING PIN	S.S.	Ø1/8 X 1/4 MCMASTER-CARR #92373A173		3
		16	B/O	-75	4				LOCK NUT	S.S.	10-32 MCMASTER-CARR #91831A411		3
2		16	B/O	-77	4				MACHINE SCREW	S.S.	10-32 X 3/4 MCMASTER-CARR #91772A831		3/22
		26	B/O	-79	4				FLAT WASHER	S.S.	10-32 MCMASTER-CARR #91525A117		3
2			B/O	-81					ARM KNOB	S.S.	MCMASTER-CARR #4276T44		3
			B/O	-83	3				CAP	VINYL	2 OD X 1-1/2 MCMASTER-CARR #9753K94		1
			B/O	-85	3				2 HOSE CLAMP	S.S.	MCMASTER-CARR #5362K21		1
			B/O	-87	4				8 HOSE CLAMP	S.S.	MCMASTER-CARR #5215K15		1
			B/O	-91	1				SMALL DUCT HOSE	POLYETHYLENE	2-1/2 OD HOSE MCMASTER-CARR #9020T76 GREY		
	4		B/O	-93					QUICK RELEASE FASTNER	S.S.	MILSPEC 2600-20SW		20
	4		B/O	-95					STUD RETAINER	S.S.	MILSPEC #2600-LW		20
			B/O	-97	2				8 DUCT HOSE	PLASTIC	U.S. AIMOTIVE USAIR830AHIMW-EP7		NS
			B/O	-99	2				8 ADAPTER	PLASTIC	U.S. AIMOTIVE IA8986		NS
	1			-101					AVIONICS DUCT FOAM	CLOSED CELL FOAM	1/4 X 9.0 X 10-1/2		27
1				-103					ENGINE DUCT FOAM	CLOSED CELL FOAM	1/4 X 17-1/2 X 19-1/4		28
		1		-105					THUMB SCREW	S.S.	1/4-20 MCMASTER-CARR #91746A414(NEEDS MODIFIED)		30
		1	B/O	-107					LANYARD	S.S.	8" W TAB MCMASTER-CARR #30345T33		NS
		2	B/O	-109					FLAT WASHER	S.S.	Ø1/2 OD X 17/64 ID MCMASTER-CARR #91525A117		NS
		1		-111					STENCIL	STENCIL STOCK	4-1/2 X 5-1/2 STENCIL		NS
				-113	12				HOSE RETAINER	S.S.	.03 X 3/4 X 2-1/8		31
				-115	12				HOSE RETAINER, BOTTOM	S.S.	.03 X 3/4 X 2-1/8		32
			B/O	-117	24				FLATHEAD SCREW	S.S.	8-32 X 1/2 MCMASTER-CARR #91771A194		1
			B/O	-119	24				LOCKNUT	S.S.	8-32 MCMASTER-CARR #91831A009		1
			B/O	-121	24				STANDOFF	S.S.	1/8 X Ø5/8 MCMASTER-CARR #98126A834		1
			B/O	-123	3				LANYARD	S.S.	12" W TAB MCMASTER-CARR #30345T38		NS
		8	B/O	-125					MACHINE SCREW	S.S.	1/4-20 X 3/4 MCMASTER-CARR #91772A540		
		8	B/O	-127					LOCK NUT	S.S.	1/4-20 MCMASTER-CARR #91831A029		
ASSY													
-47	-41	-37	-31	-19	-3	-1							

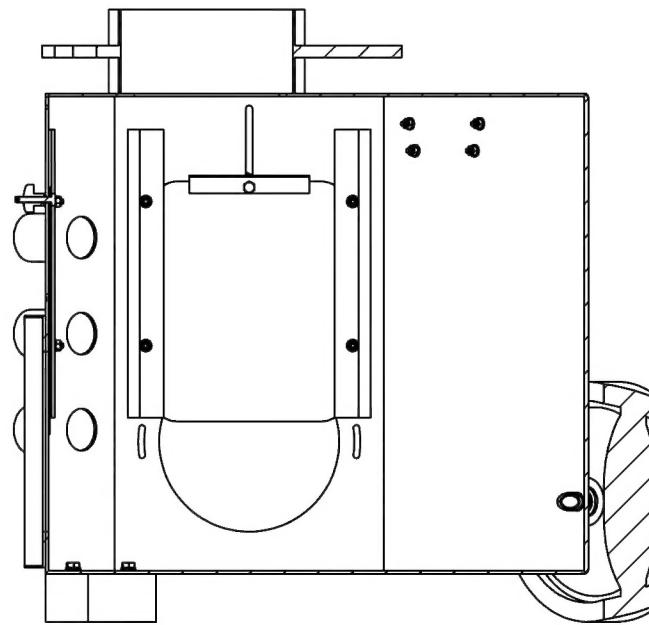
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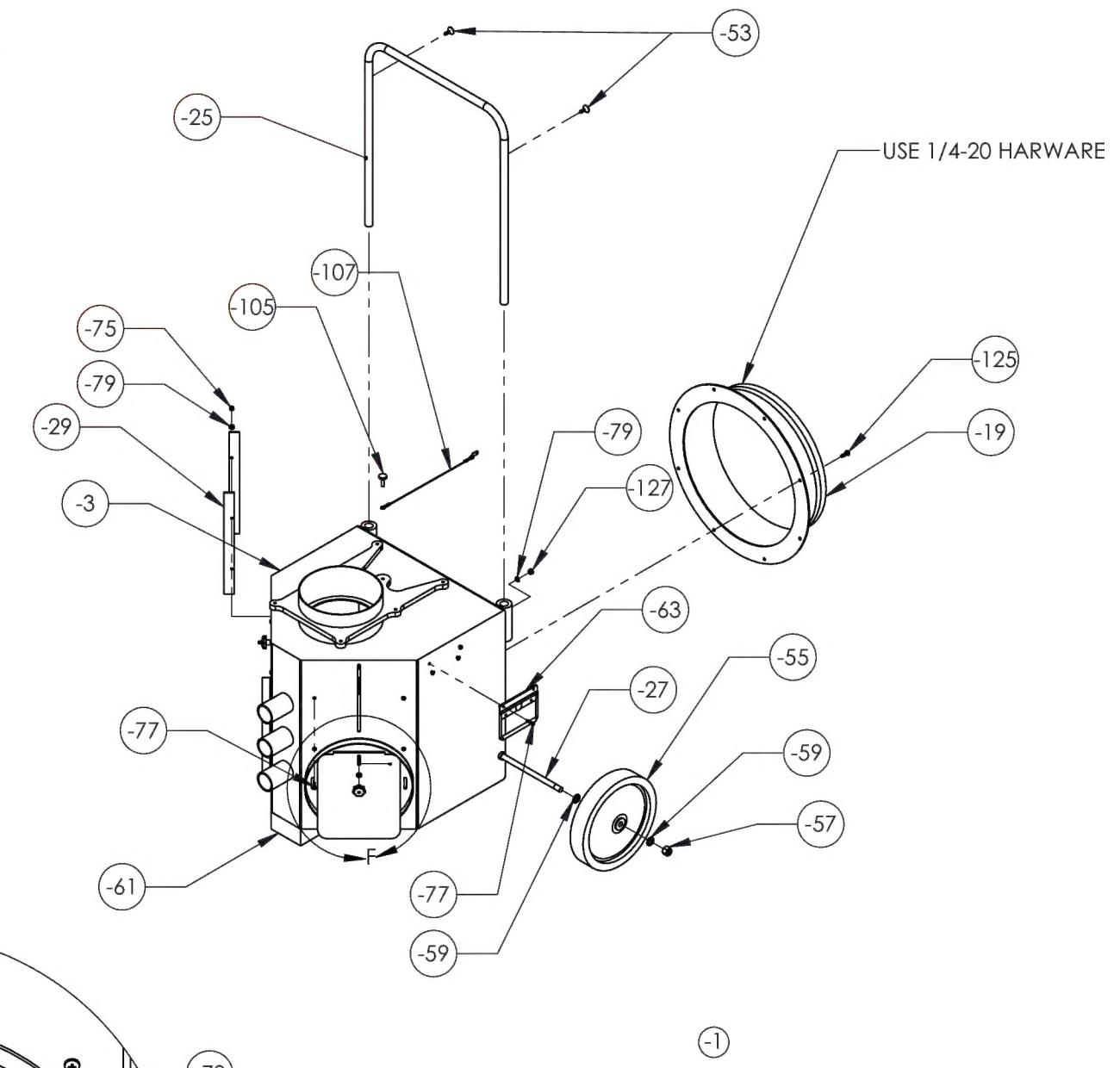
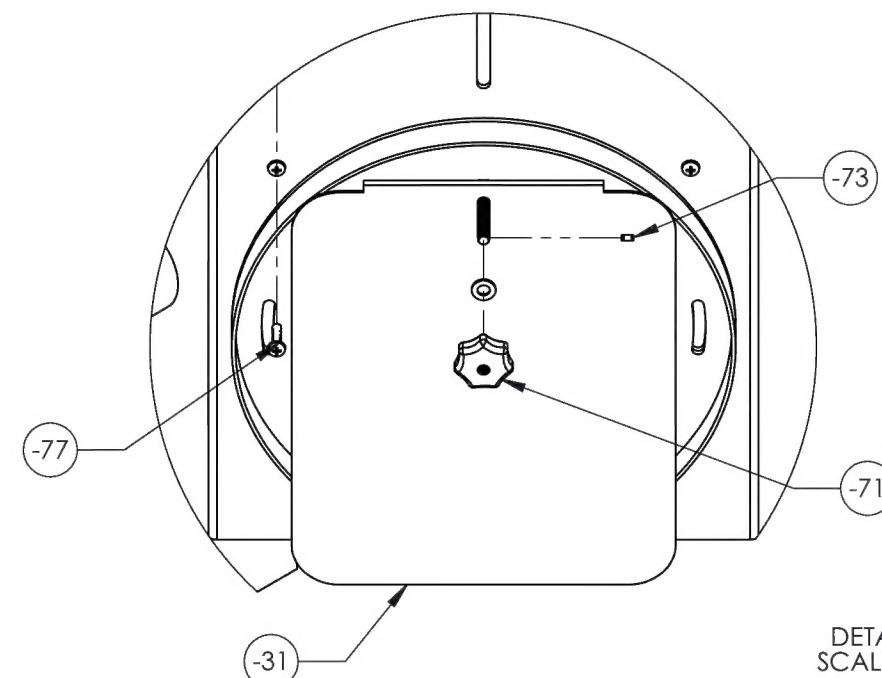
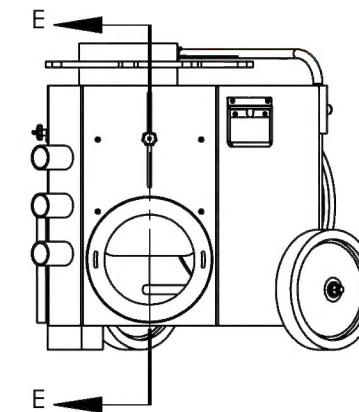
RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	REV
RBT18400	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005	
.001 HEAT TREAT	
.01 FRACTIONS ± 1/32	
.1 ANGLES ± 5°	
.01 FINISH	
.005 SPEC	
.001 USED ON MODEL	
.001 FIRE SCOUT MQ-8B	
.001 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	DATE
1:8	2/4/2011
SHEET 2 OF 32	

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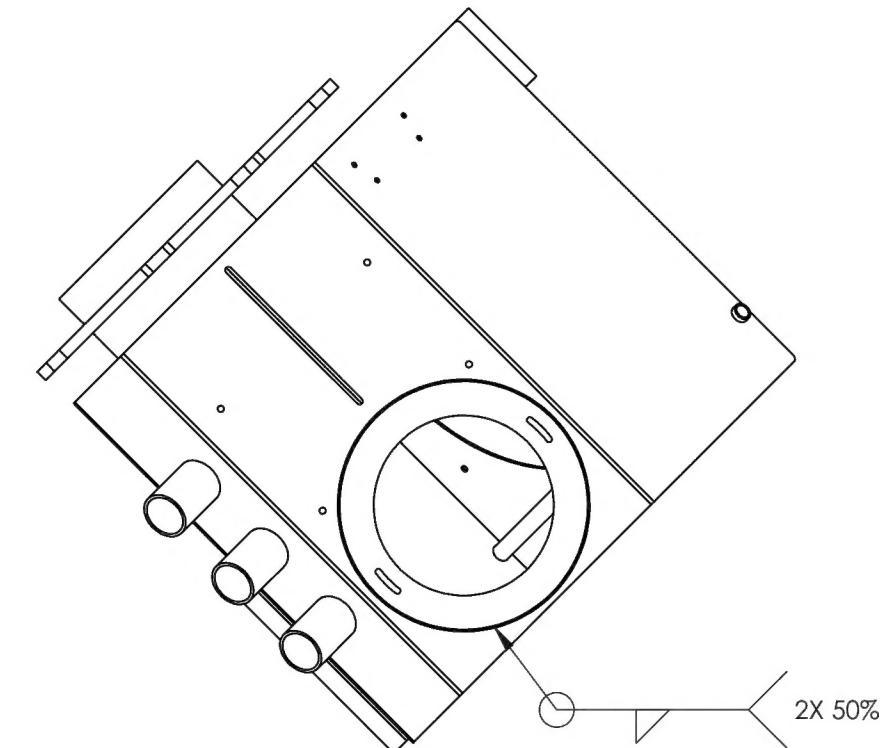
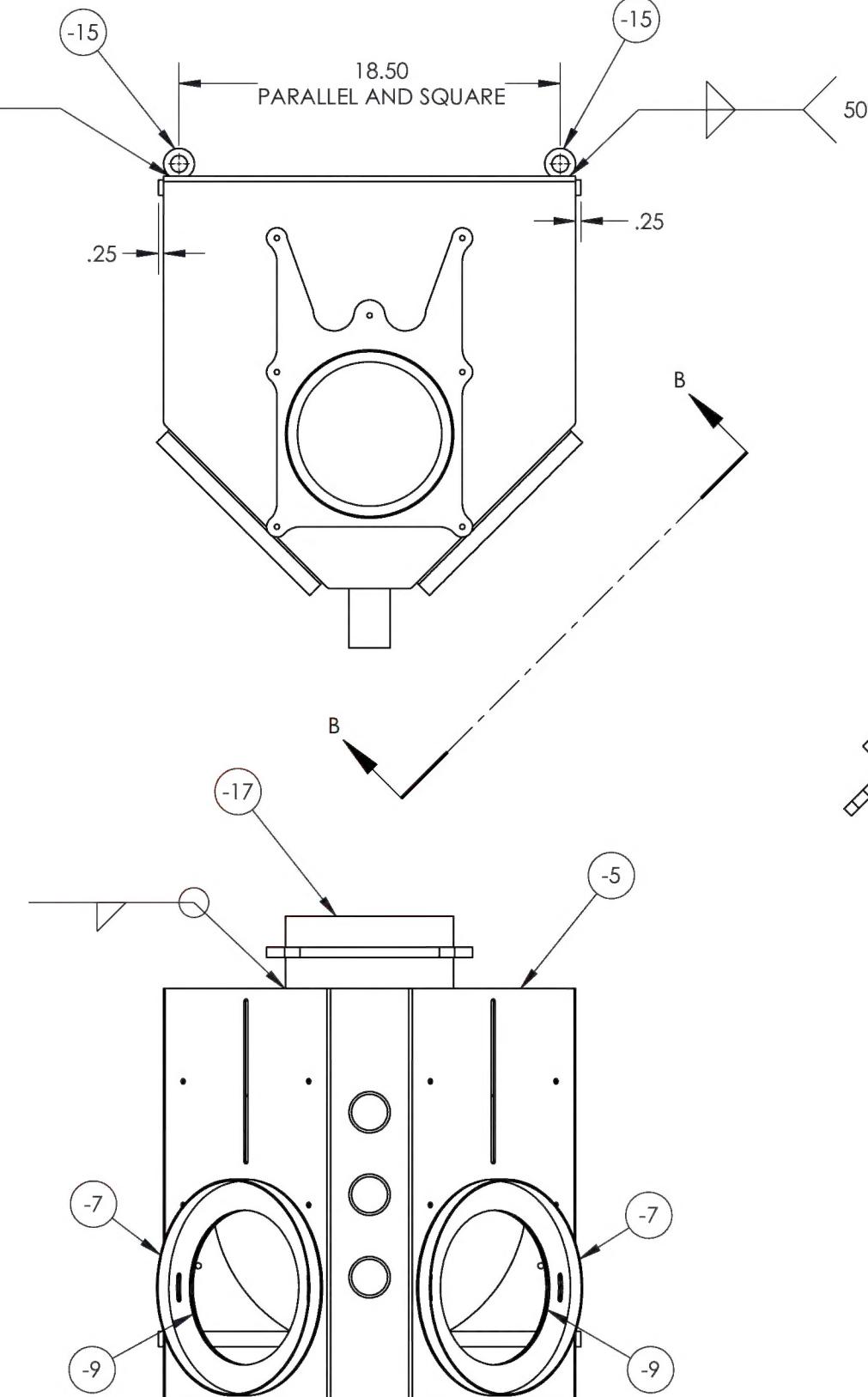
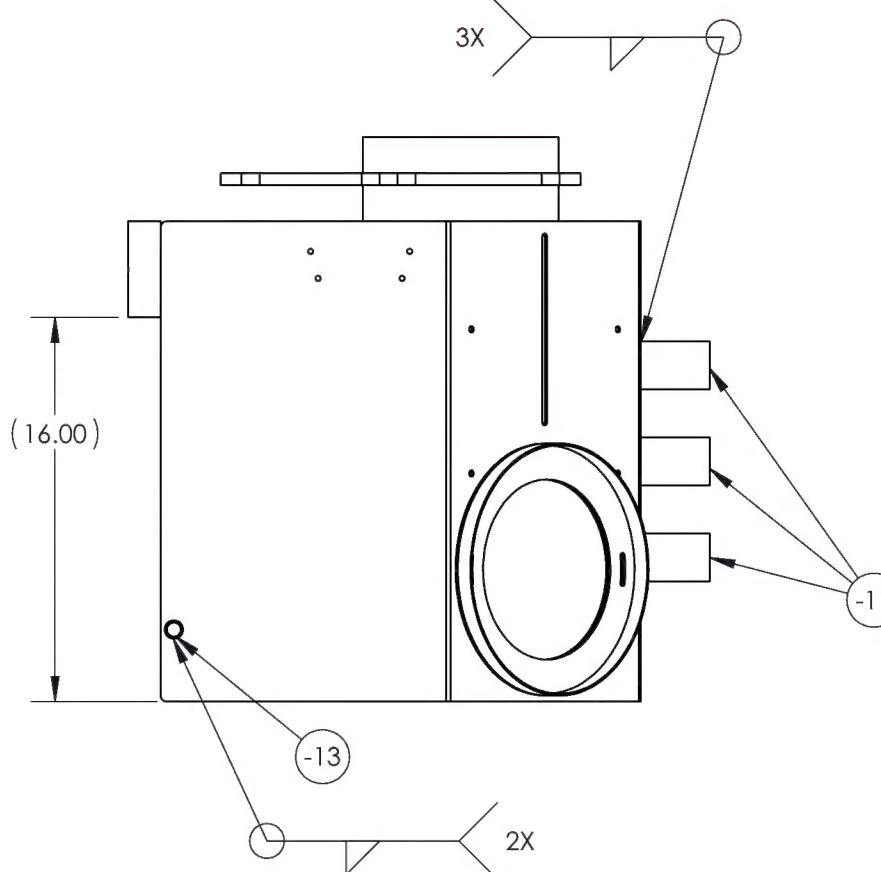
SECTION E-E
TYP SIDE GATE ASSY, 2 PER ASSY



RB RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX \pm .005	APPROVED <i>D. Weil</i>
XX \pm .01	HEAT TREAT
X \pm .1	FINISH
	SPEC
	USED ON MODEL
	FIRE SCOUT MQ-8B
SCALE 1:8	DATE 2/4/2011
SHEET 3 OF 32	REV 1

DETAIL F
SCALE 1 : 4

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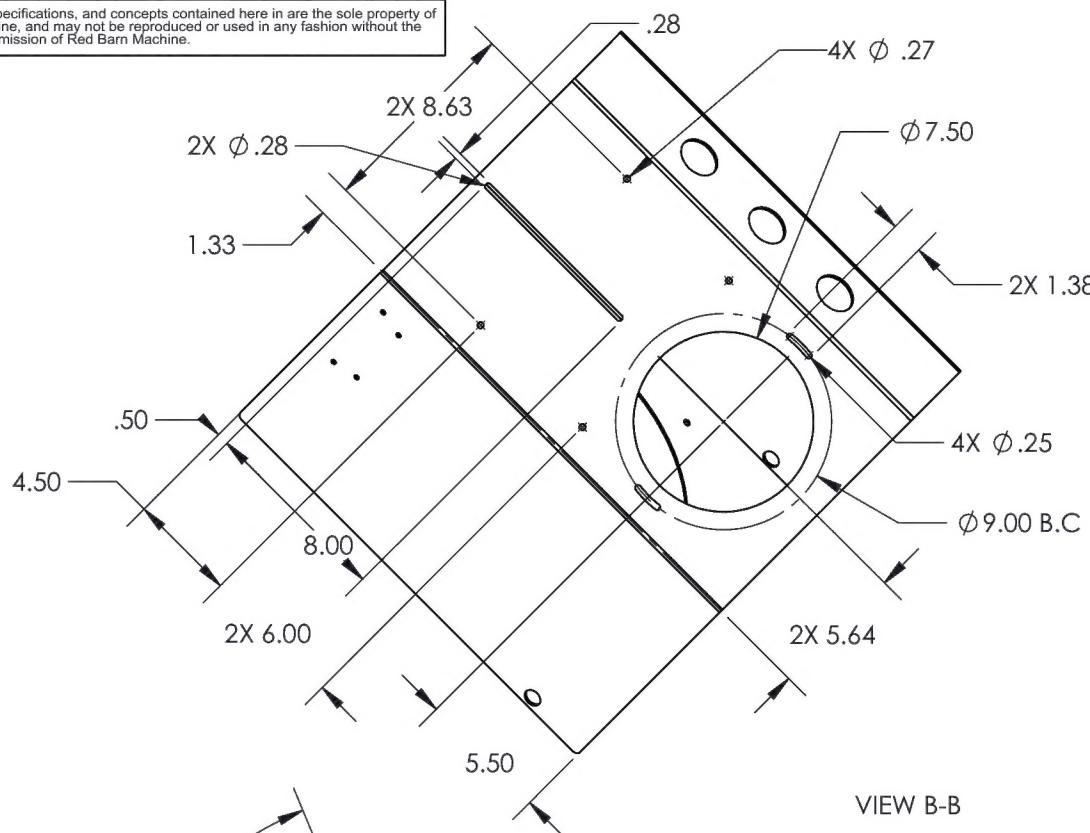


(3)
SPLITTER BOX WELDMENT

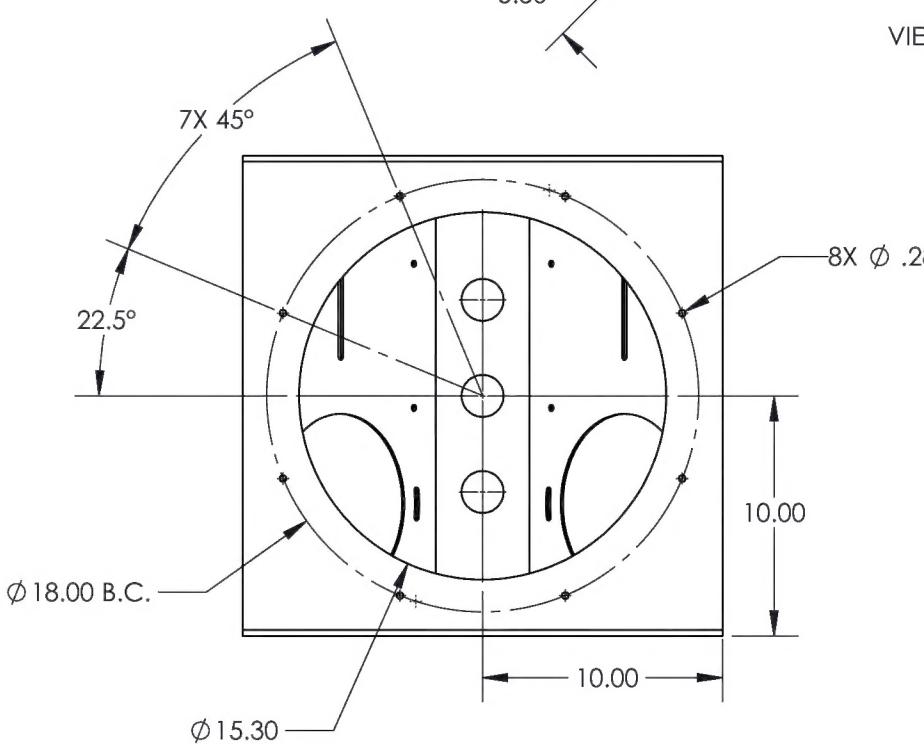
RB RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-3
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS	APPROVED <i>D. Weil</i>
XXX \pm .005	HEAT TREAT
XX \pm .01	FRACTION \pm 1/32
X \pm .1	ANGLES \pm .5°
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	FINISH POWDER COAT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC RAL 9003
	USED ON MODEL FIRE SCOUT MQ-8B
SCALE 1:8	DATE 2/4/2011
	SHEET 4 OF 32

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REV		DESCRIPTION		DATE	INITIAL	APPROVED
1		HOLE FROM 16.00 TO 15.30, 10 HOLES @ Ø.22 TO 8X Ø.28		2/4/2011	JAG	



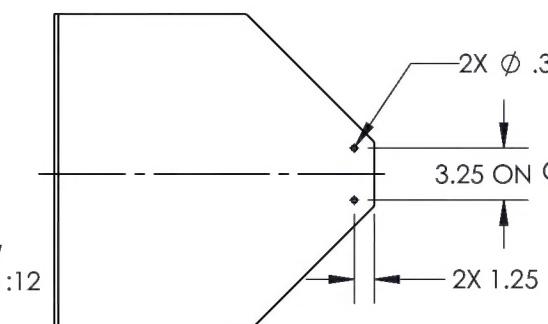
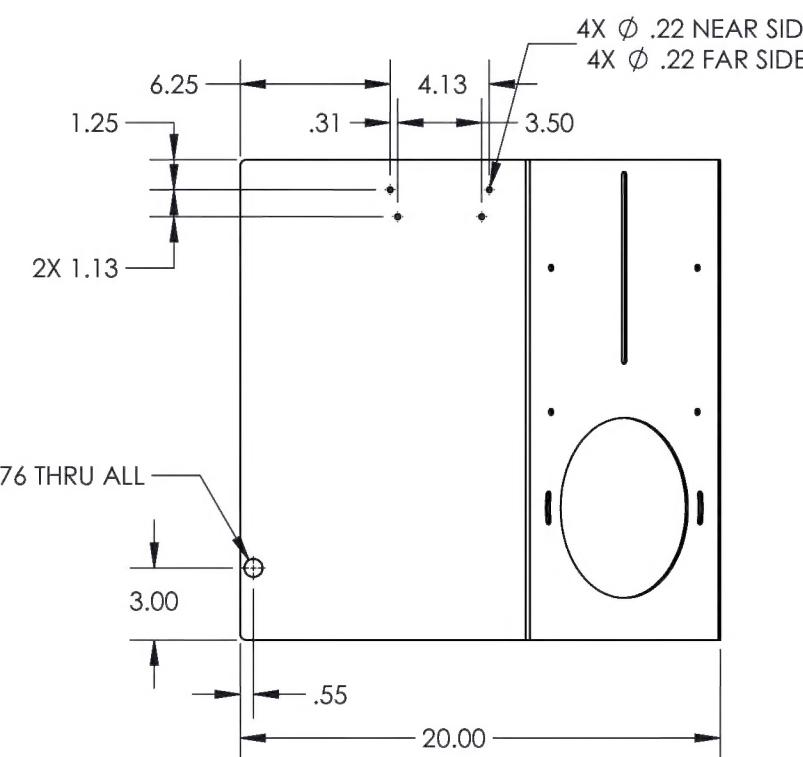
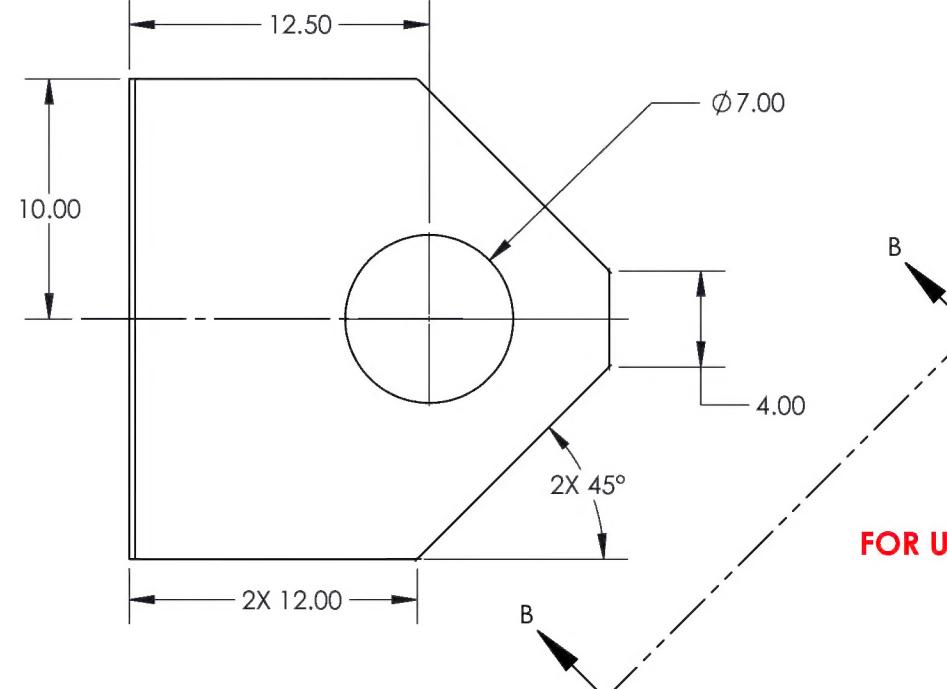
VIEW B-B



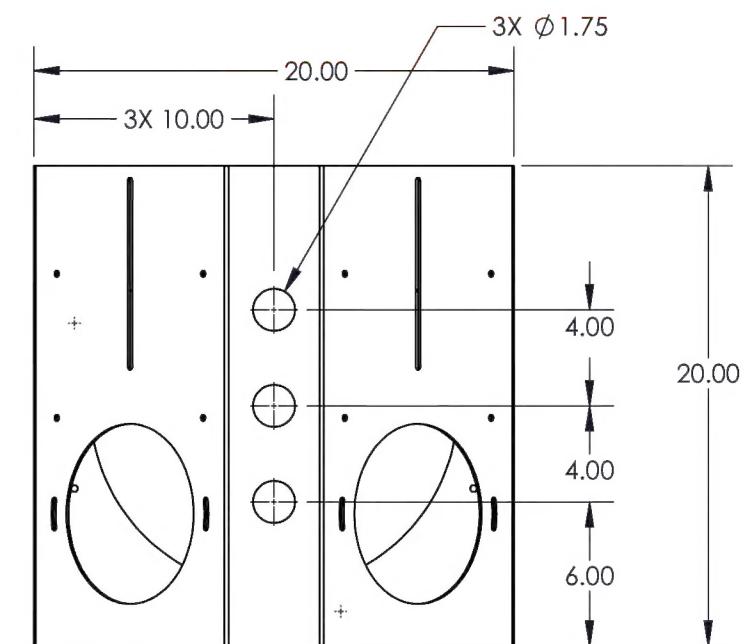
(-5)
BOX

NOTES:
1. WELD ALL SEAMS 100%.
2. HOLE & SLOT FEATURES ARE THRU 1 WALL
ONLY UNLESS OTHERWISE SPECIFIED.
3. WALL THICKNESS .125
4. HIDDEN LINES REMOVED FOR CLARITY.

THIS VIEW
SCALED 1:12



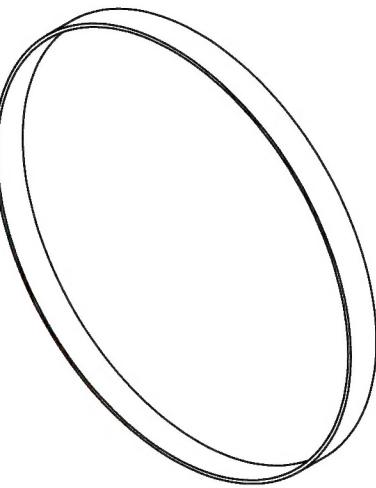
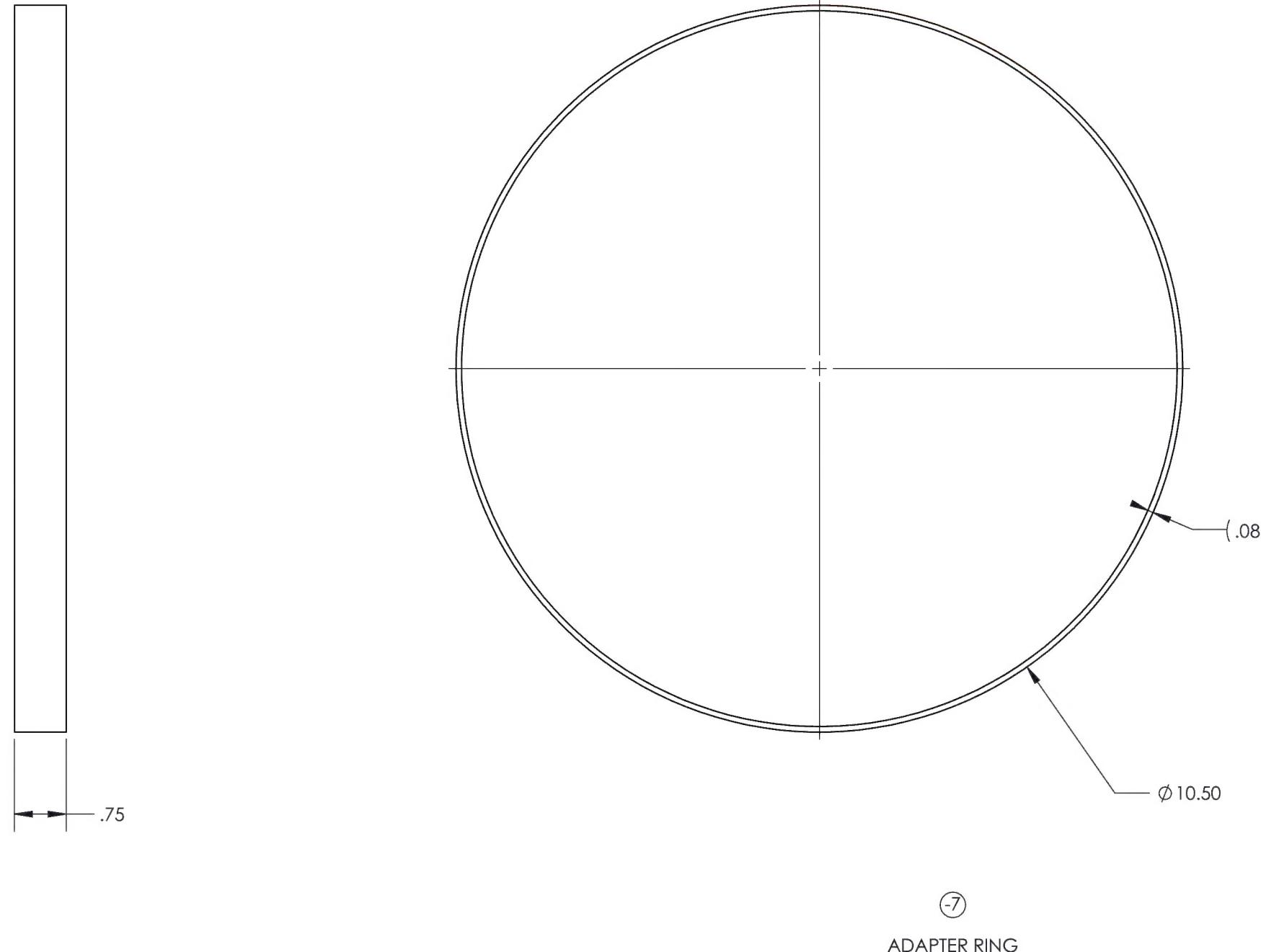
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RB		RED BARN MACHINE	
TITLE		CONDITIONED AIR ADAPTER SET	
DWG NO.		RBT18400-5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: GILBERT	
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1		APPROVED D. Weil	
HEAT TREAT		FRACTIONS ± 1/32	
FINISH		ANGLES ± .5°	
SPEC			
USED ON MODEL			
SCALE	1:8	DATE	2/4/2011
REV	1		

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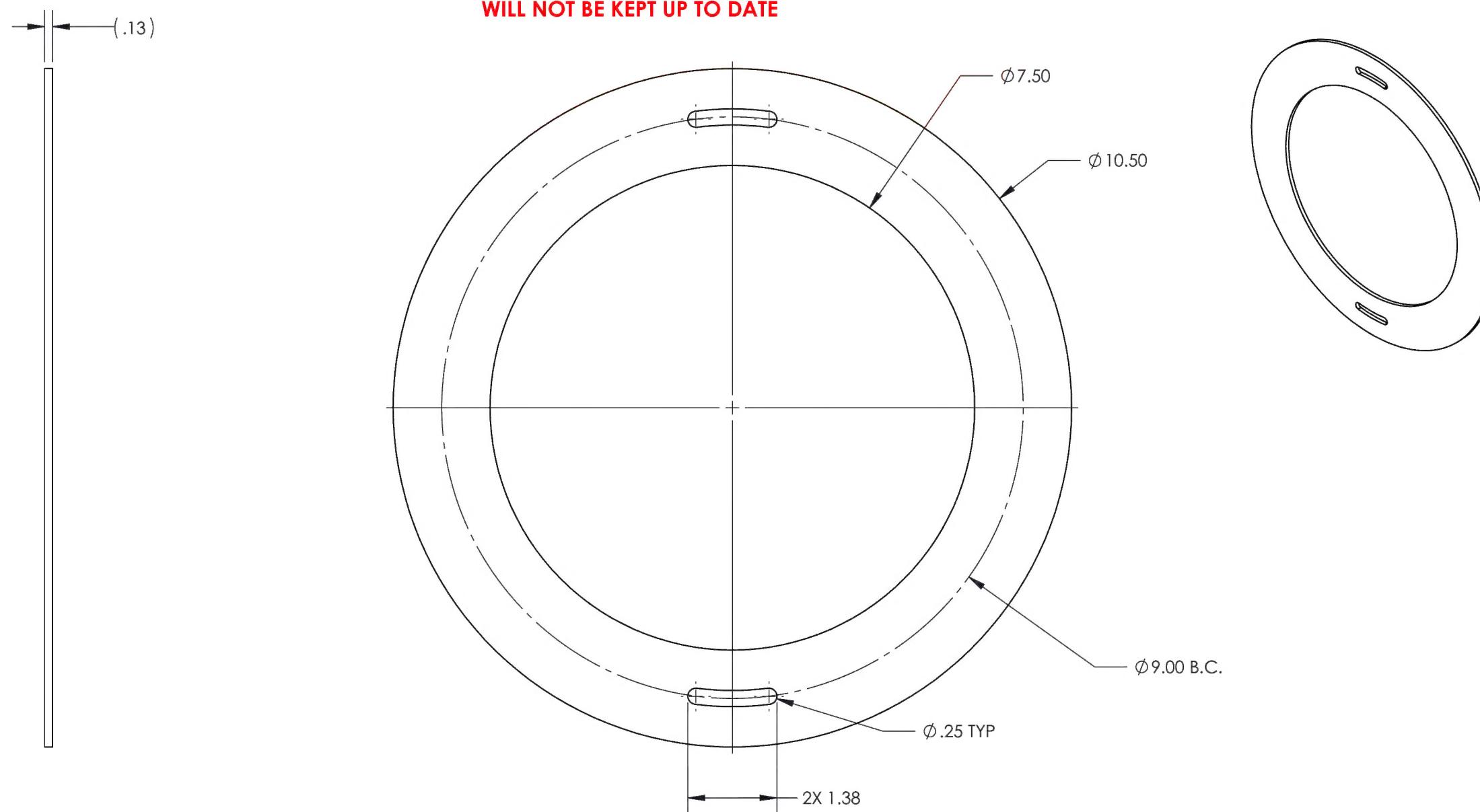
NOTE:
WELD SEAM 100%

(-7)
ADAPTER RING

RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-7
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS $XXX \pm .005$ FRACTIONS $\pm 1/32$ $XX \pm .01$ ANGLES $\pm .5^\circ$ $X \pm .1$	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 6 OF 32	

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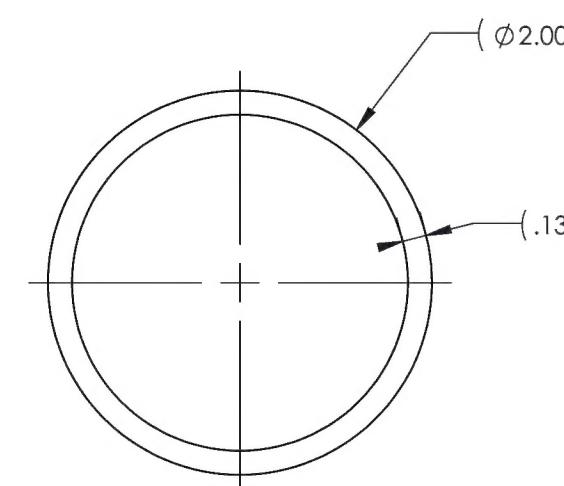
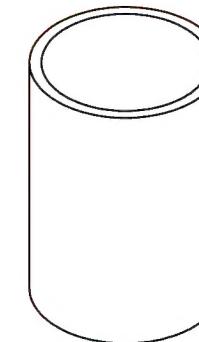
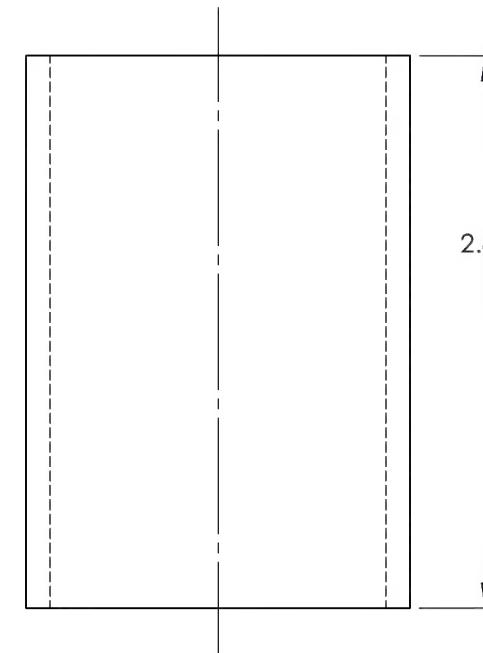
(-9)

ADAPTER FLANGE

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-9
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 7 OF 32	

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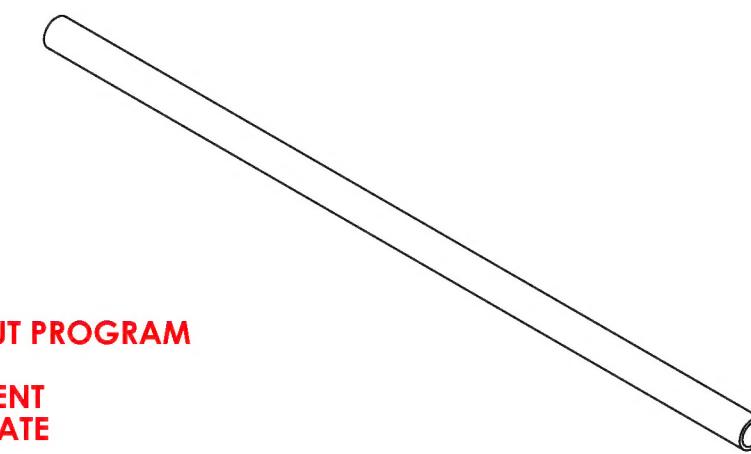
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-11

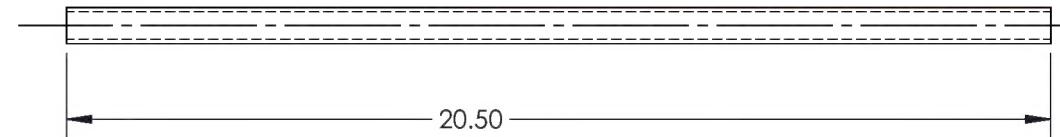
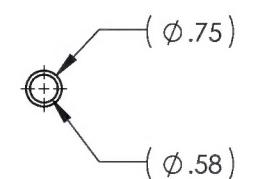
SMALL DUCT TUBE

RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-11
REV	1
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS XXX \pm .005	
FRACTIONS \pm 1/32	
ANGLES \pm .5°	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:1
DATE	2/4/2011
SHEET 8 OF 32	



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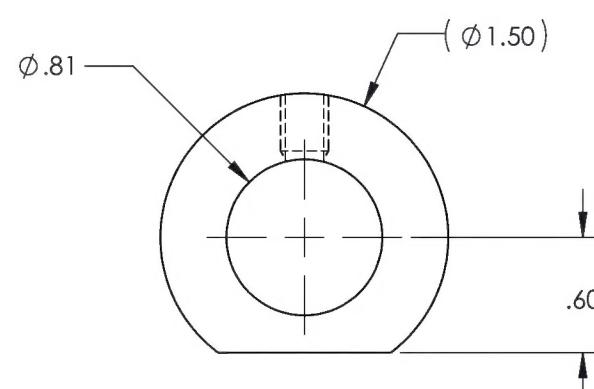
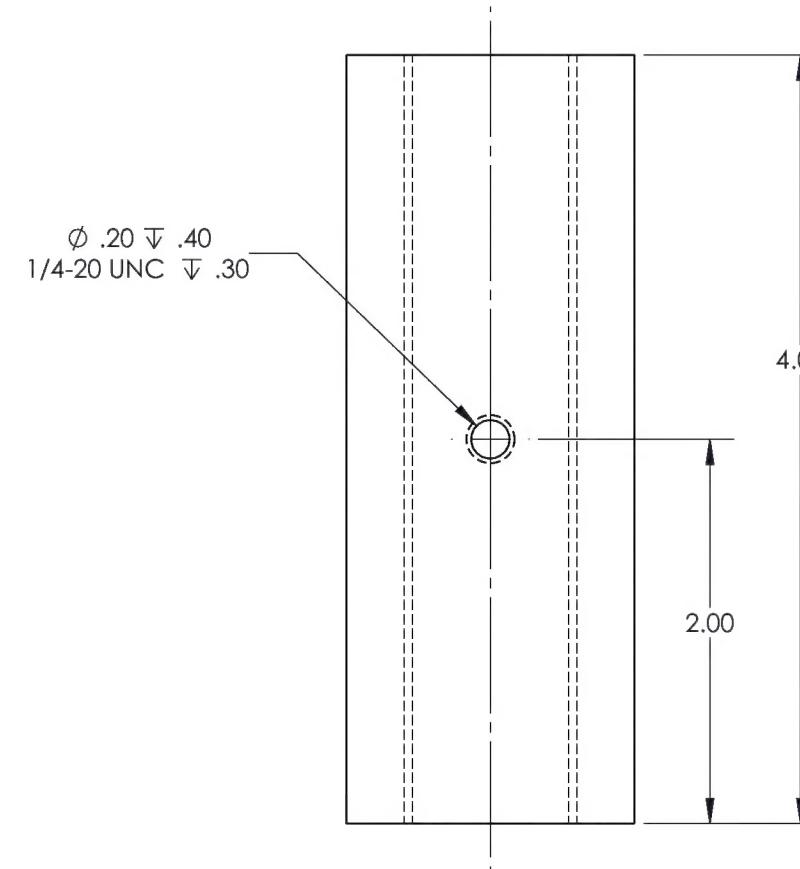
-13

AXLE TUBE

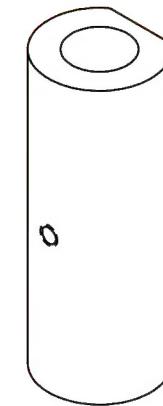
RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-13
REV	1
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	
XXX	± .005
XX	± .01
X	± .1
FRACTIONS ± 1/32	
ANGLES ± .5°	
HEAT TREAT	
FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:4
DATE	2/4/2011
SHEET 9 OF 32	

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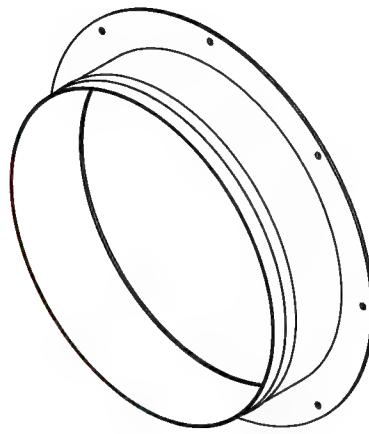
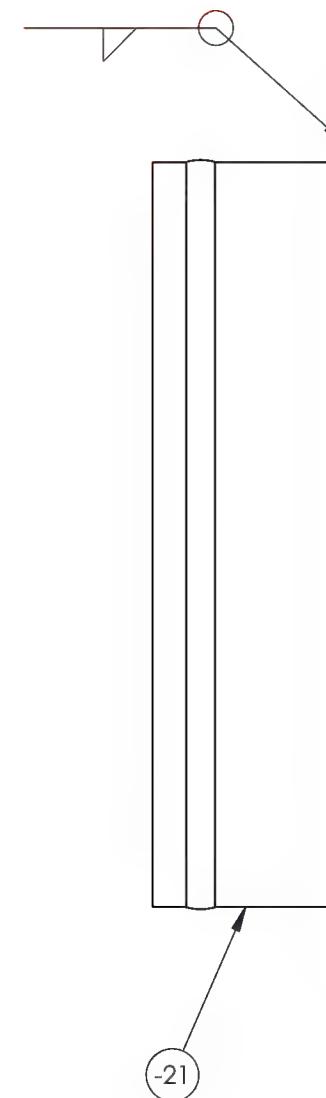
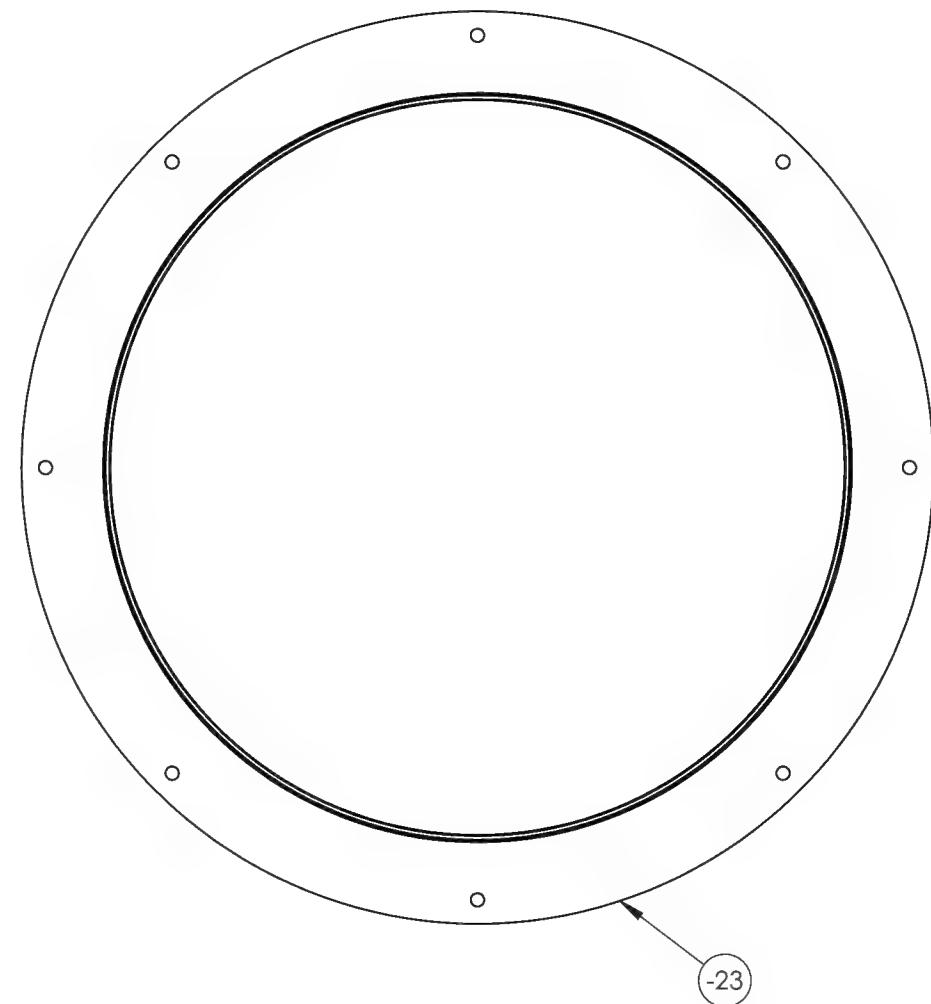
(-15)
HANDLE TUBE



RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-15 REV 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED <i>D. Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:1	DATE 2/4/2011
SHEET 10 OF 32	

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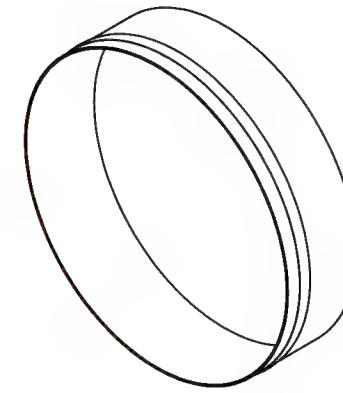
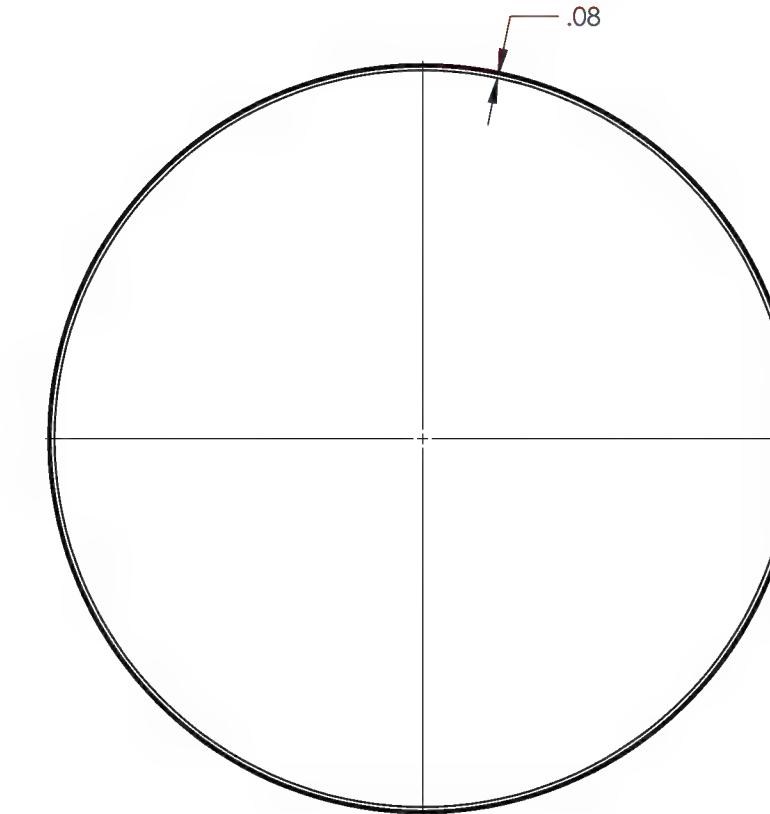
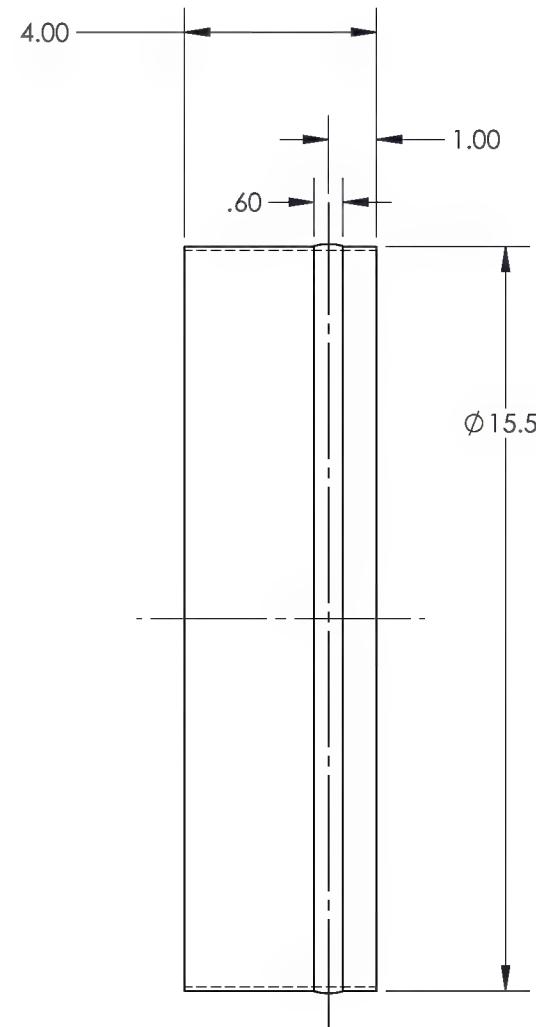


(-19)
SUPPLY DUCT WELDMENT

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-19 REV 1	
UNLESS OTHERWISE SPECIFIED DRAWN BY: GILBERT	
DIMENSIONS ARE IN INCHES APPROVED D. Weil	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32	
.005 ± .01 FINISH POWDER COAT	
.01 ± .1 ANGLES ± .5°	
.1 ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES	
.015 x 45° PR.015 R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE 1:4	DATE 2/4/2011
SHEET 11 OF 32	

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WILL NOT BE KEPT UP TO DATE

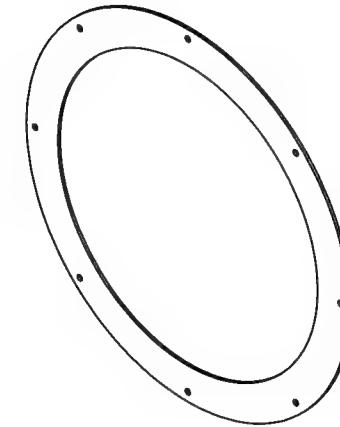
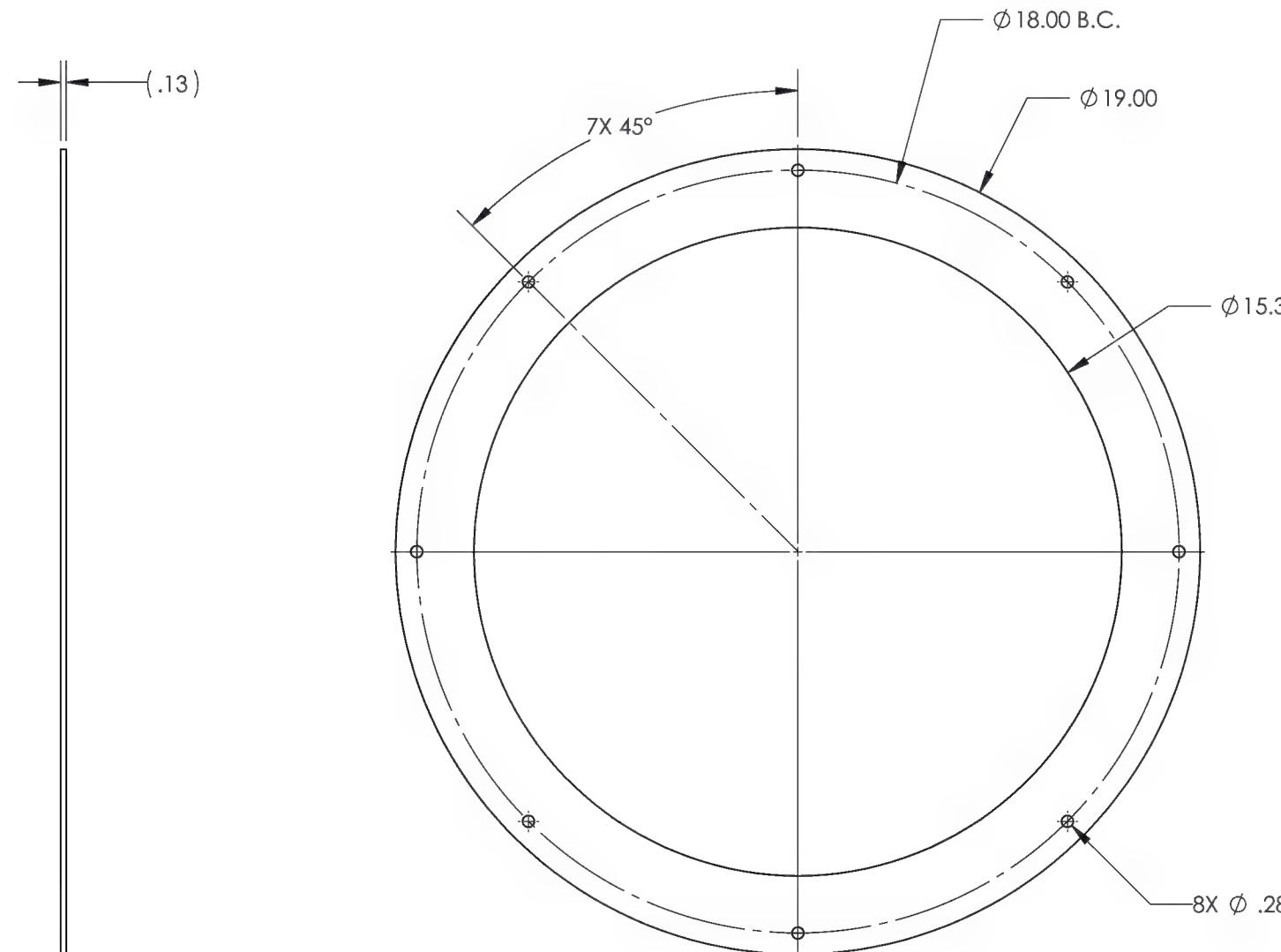


NOTE:
WELD SEAM 100%

(-21)
DUCT RING

RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-21
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:4
DATE	2/4/2011
SHEET 12 OF 32	

REV		DESCRIPTION		DATE	INITIAL	APPROVED
1		CHANGED FROM 10 HOLES @ Ø.22 TO 8 @ Ø.28, ID TO 15.30 FROM 15.84		2/18/2011	JAG	



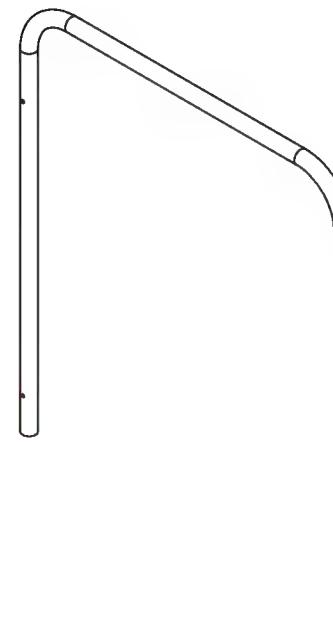
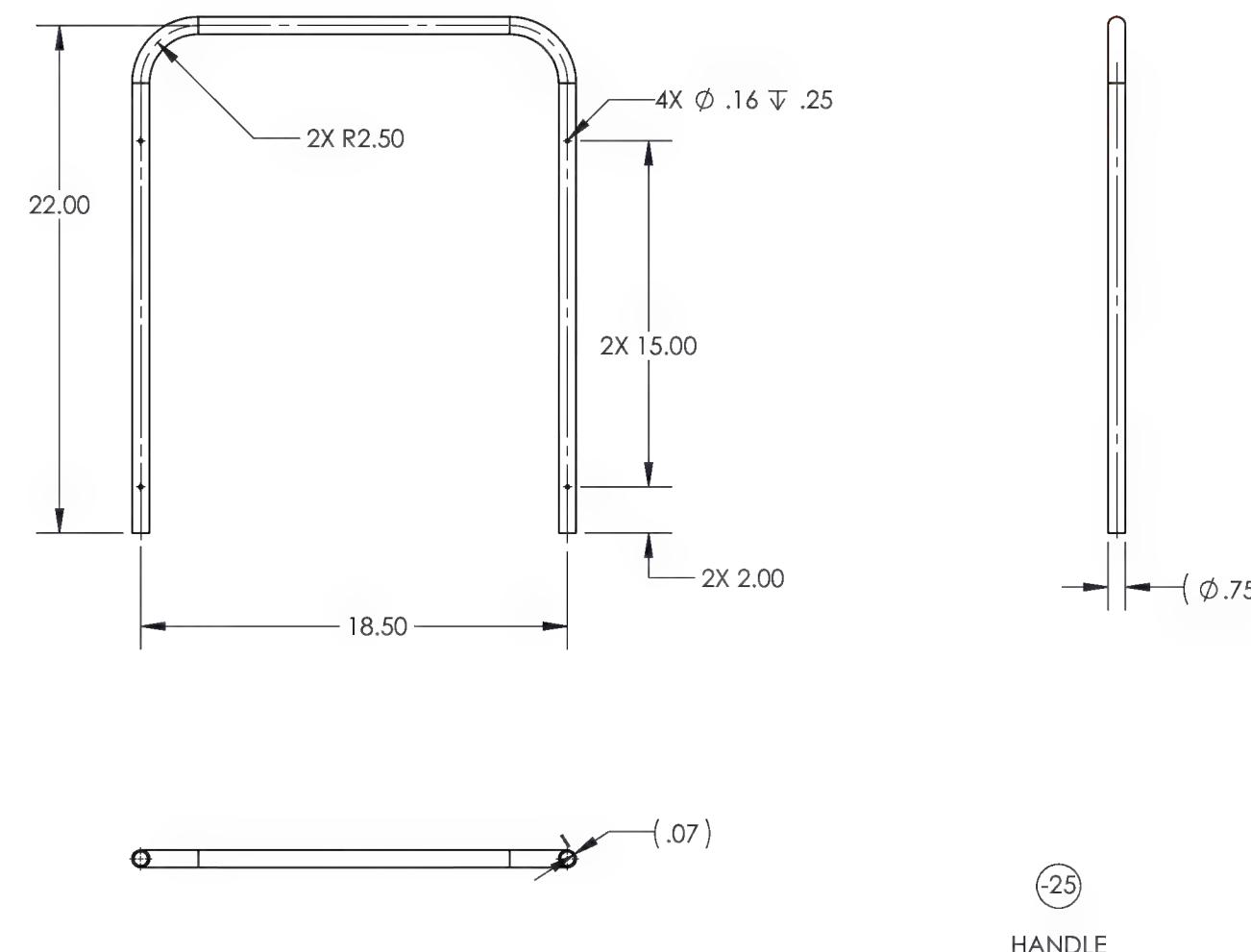
FOR USE ONLY ON NAVY FIRE SCOUT PROGRAM
UNCONTROLLED DOCUMENT
WILL NOT BE KEPT UP TO DATE

-23
DUCT FLANGE

RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-23
REVISION	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED: <i>D. Weil</i>
XX ± .01	HEAT TREAT
X ± .1	FINISH
	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:4	DATE 2/4/2011
	SHEET 13 OF 32

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WILL NOT BE KEPT UP TO DATE

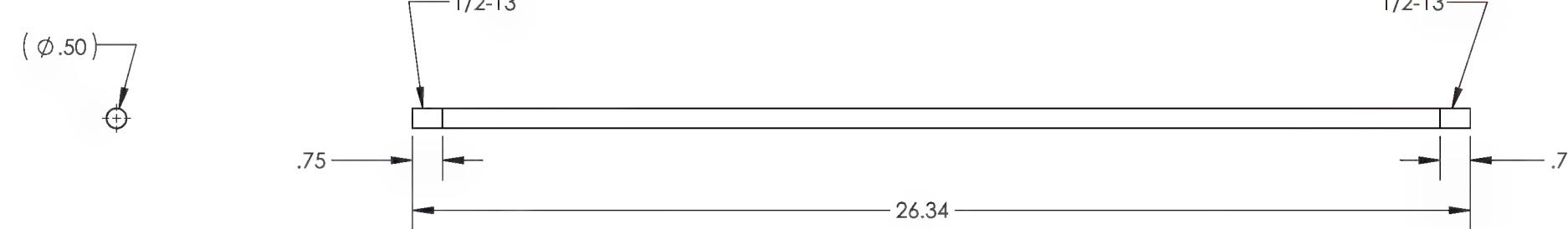


(-25)
HANDLE

RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-25
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED <i>D. Weil</i>
.XX ± .01	HEAT TREAT
.X ± .1	FINISH
	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:8	DATE 2/4/2011
	SHEET 14 OF 32

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UNCONTROLLED DOCUMENT
WILL NOT BE KEPT UP TO DATE

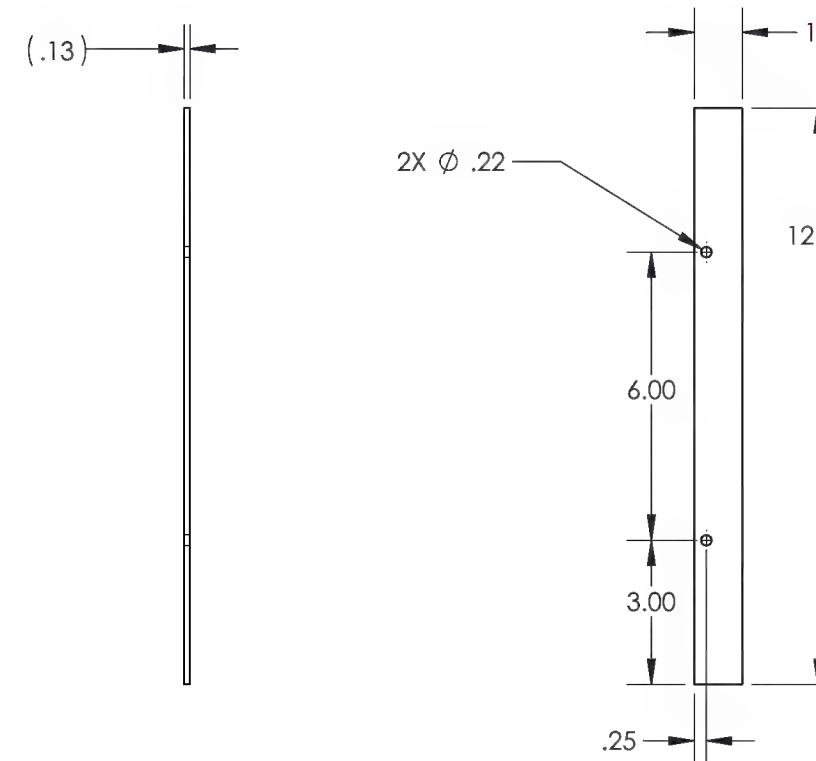


(-27)
AXLE SHAFT

RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-27
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX \pm .005	APPROVED <i>D. Weil</i>
XX \pm .01	HEAT TREAT
X \pm .1	FINISH
	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:4	DATE 2/4/2011
	SHEET 15 OF 32

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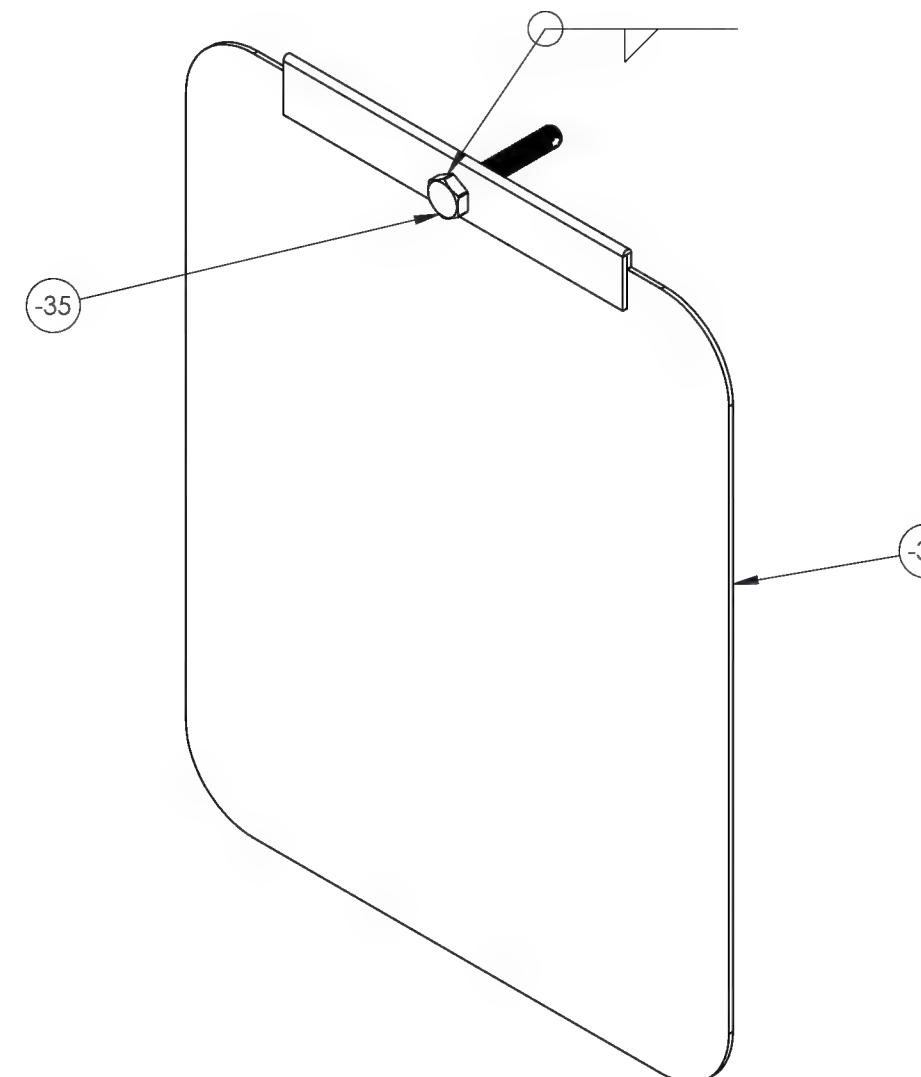
UNCONTROLLED DOCUMENT
WILL NOT BE KEPT UP TO DATE



(-29)

SIDE GATE BRACKET

RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-29
REV	1
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	
XXX	± .005
XX	± .01
X	± .1
FRACTIONS ± 1/32	
ANGLES ± .5°	
HEAT TREAT	
FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:4
DATE	2/4/2011
SHEET 16 OF 32	



(-31)
SIDE GATE WELDMENT

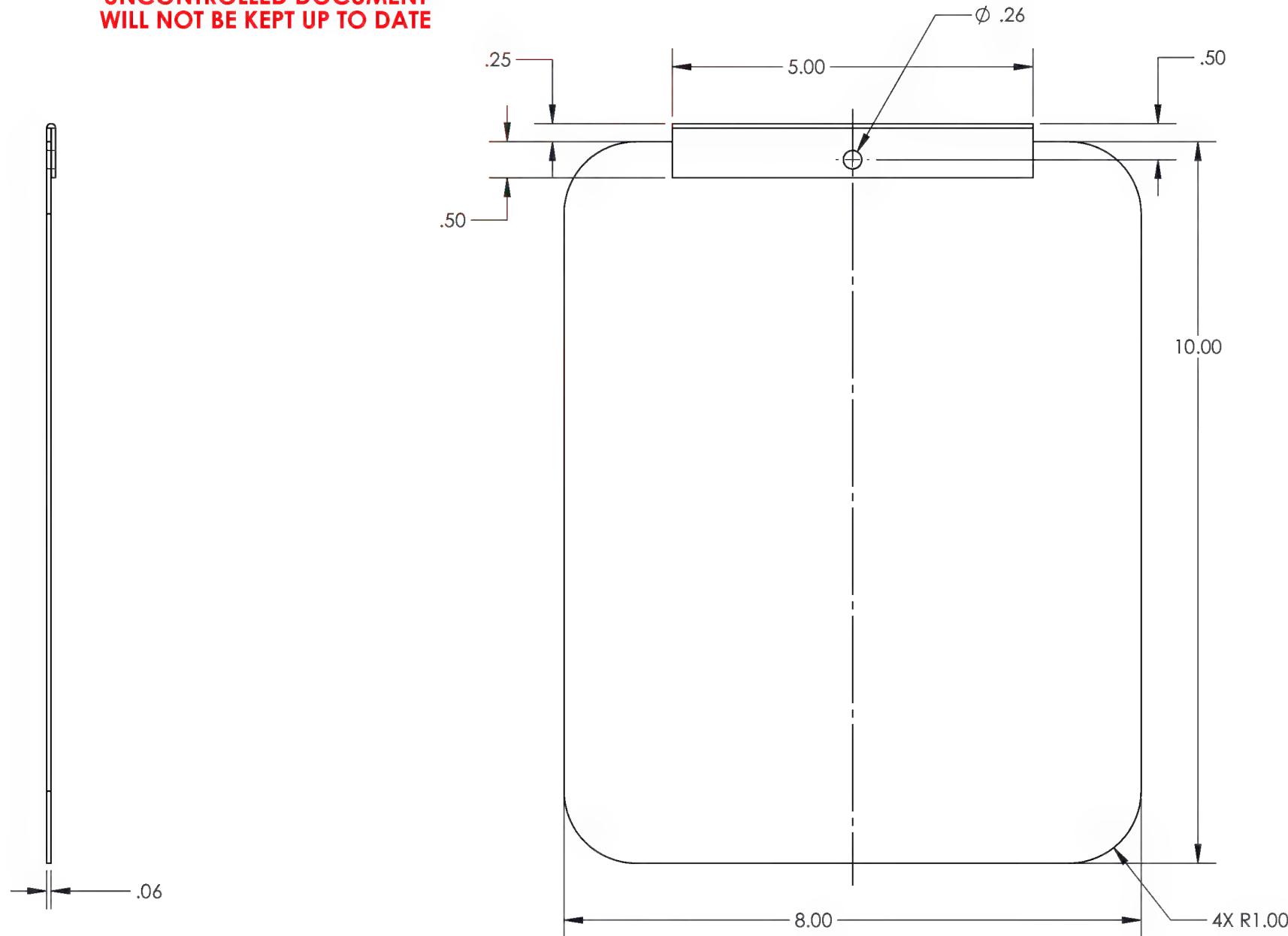
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UNCONTROLLED DOCUMENT
WILL NOT BE KEPT UP TO DATE

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-31
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED <i>D. Weil</i>	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 17 OF 32	

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WILL NOT BE KEPT UP TO DATE

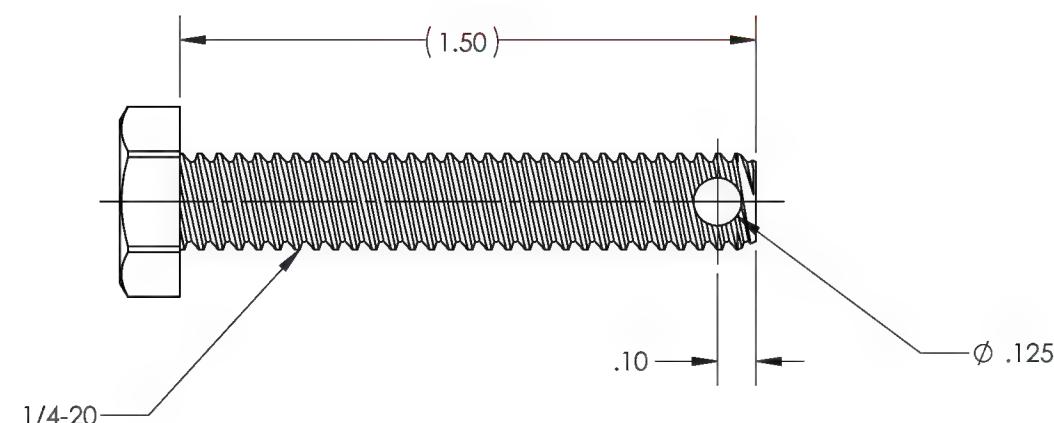
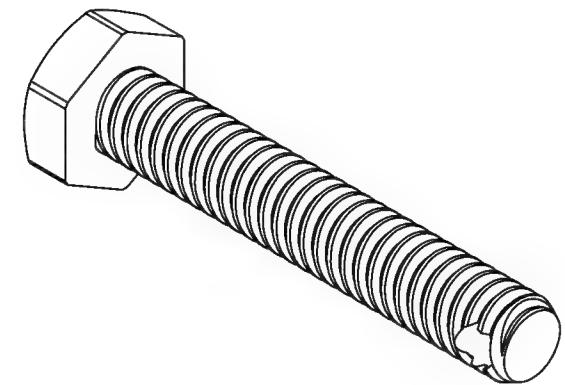


-33
SIDE GATE

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-33
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED D Weil	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 18 OF 32	

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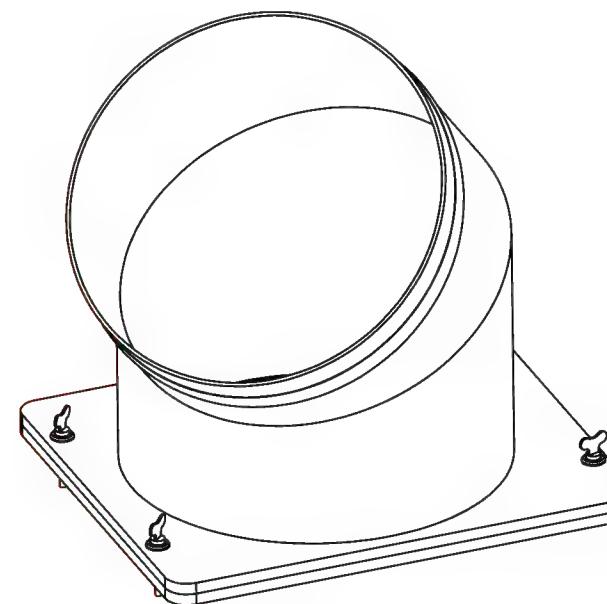
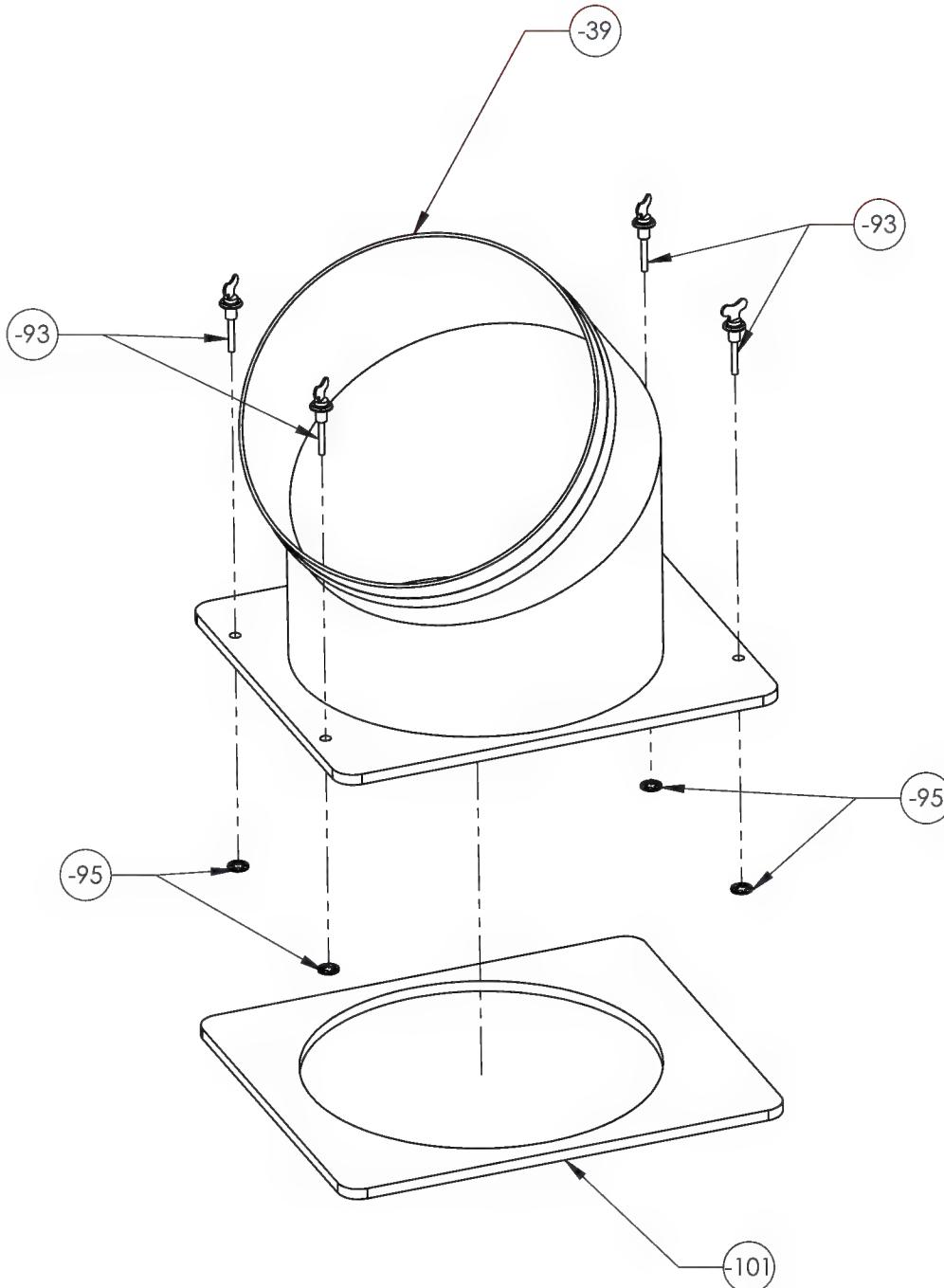
(-35)

LOCK STUD

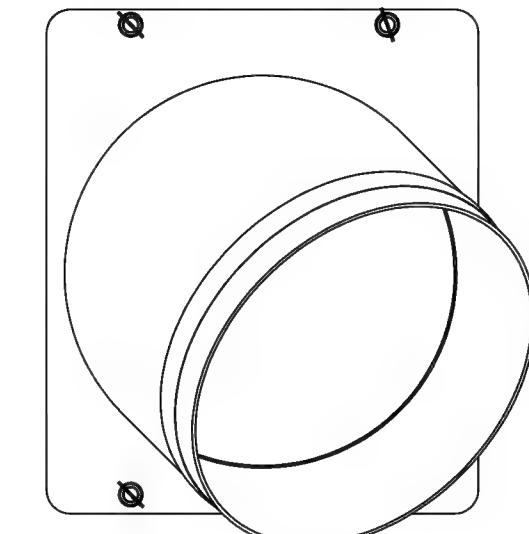
RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-35
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 ANGLES ± .5°	
APPROVED <i>D. Weil</i>	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	2:1
DATE	2/4/2011
SHEET 19 OF 32	

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APPLY STENCIL AS SHOWN IN WHITE

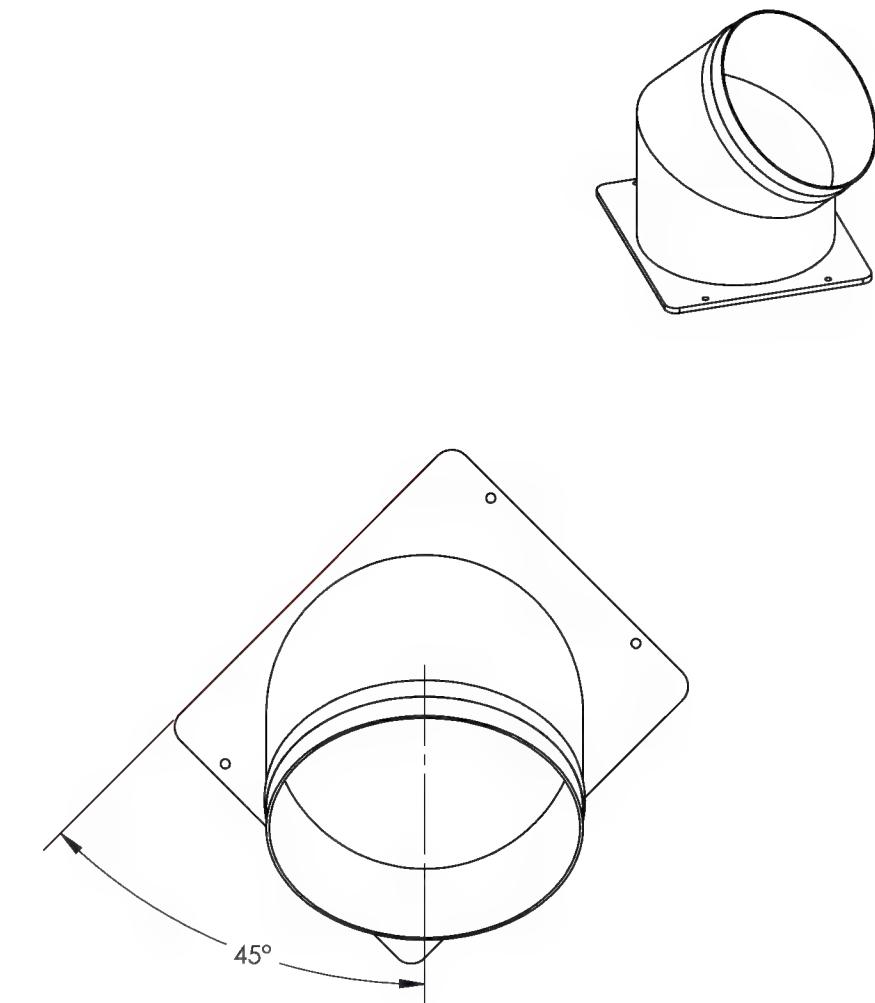
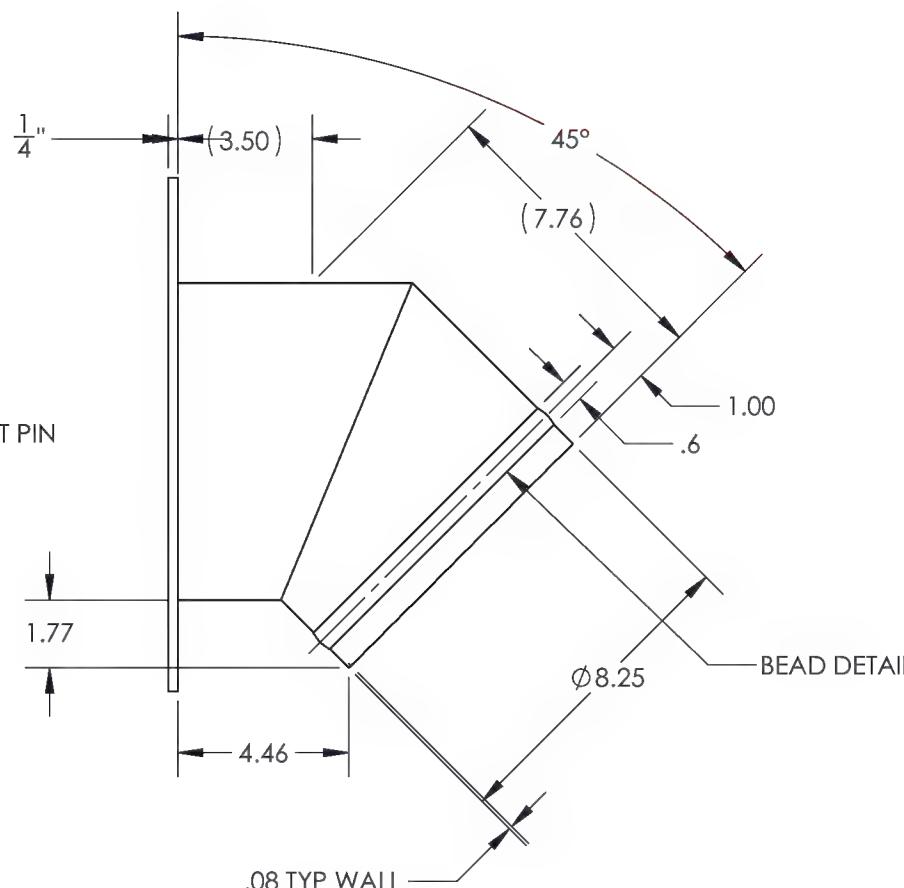
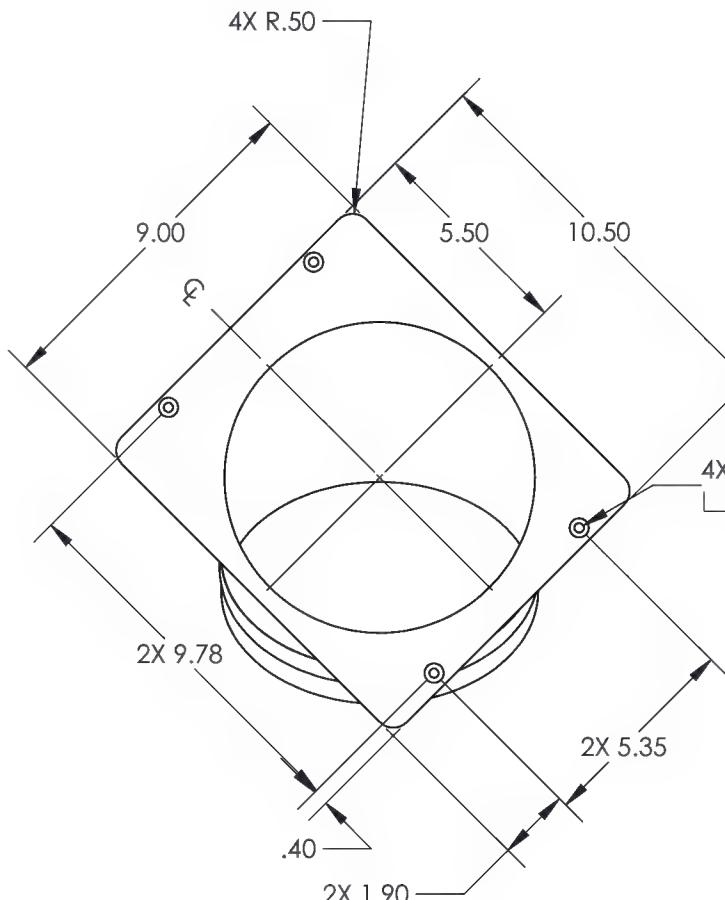


-37
AVIONICS DUCT ASSY

RB RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO.	REV
RBT18400-37 1	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS XXX ± .005 FRACTIONS ± 1/32	
XX ± .01 ANGLES ± .5°	
X ± .1	
HEAT TREAT FINISH SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	DATE
1:4	2/4/2011
SHEET 20 OF 32	

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WILL NOT BE KEPT UP TO DATE



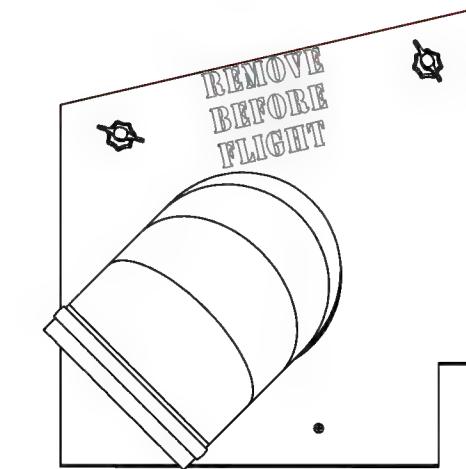
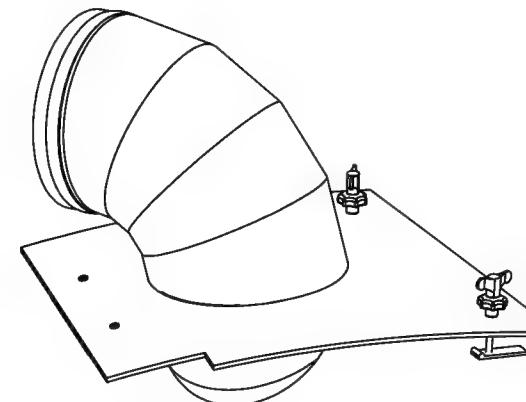
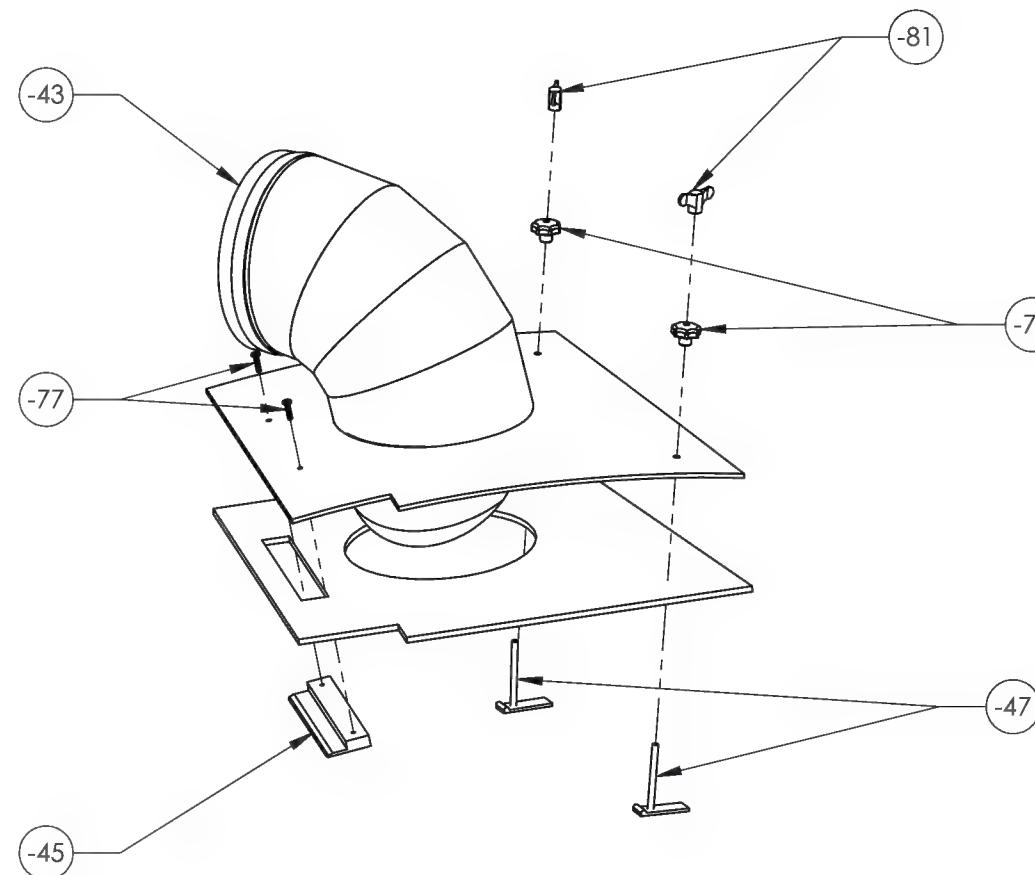
-39
AVIONICS DUCT

NOTES:
HOLES TO BE DRILLED IN FLANGE
BEFORE BEING JOINED WITH ELBOW

RED BARN MACHINE	
TITLE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	DRAWN BY: GILBERT
RBT18400-39	
REV 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32	
XX ± .01 ANGLES ± .5°	
X ± .1	
HEAT TREAT FINISH POWDER COAT RED	
SPEC RAL 3020	
USED ON MODEL FIRE SCOUT MQ-8B	
1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:5	DATE 2/4/2011
SHEET 21 OF 32	

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APPLY STENCIL AS SHOWN IN WHITE

-41
ENGINE DUCT ASSY

NOTE:
USE LOCTITE ON FASTENERS -77 AND KNOBS -81.

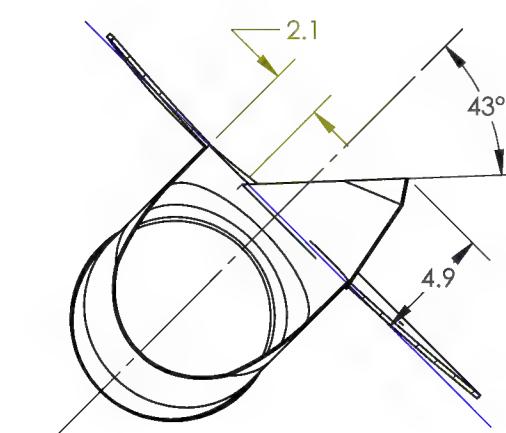
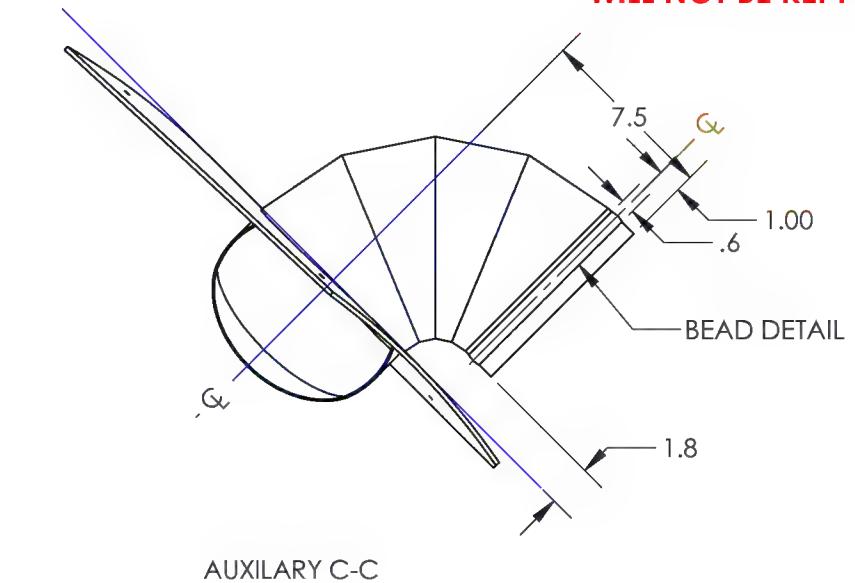
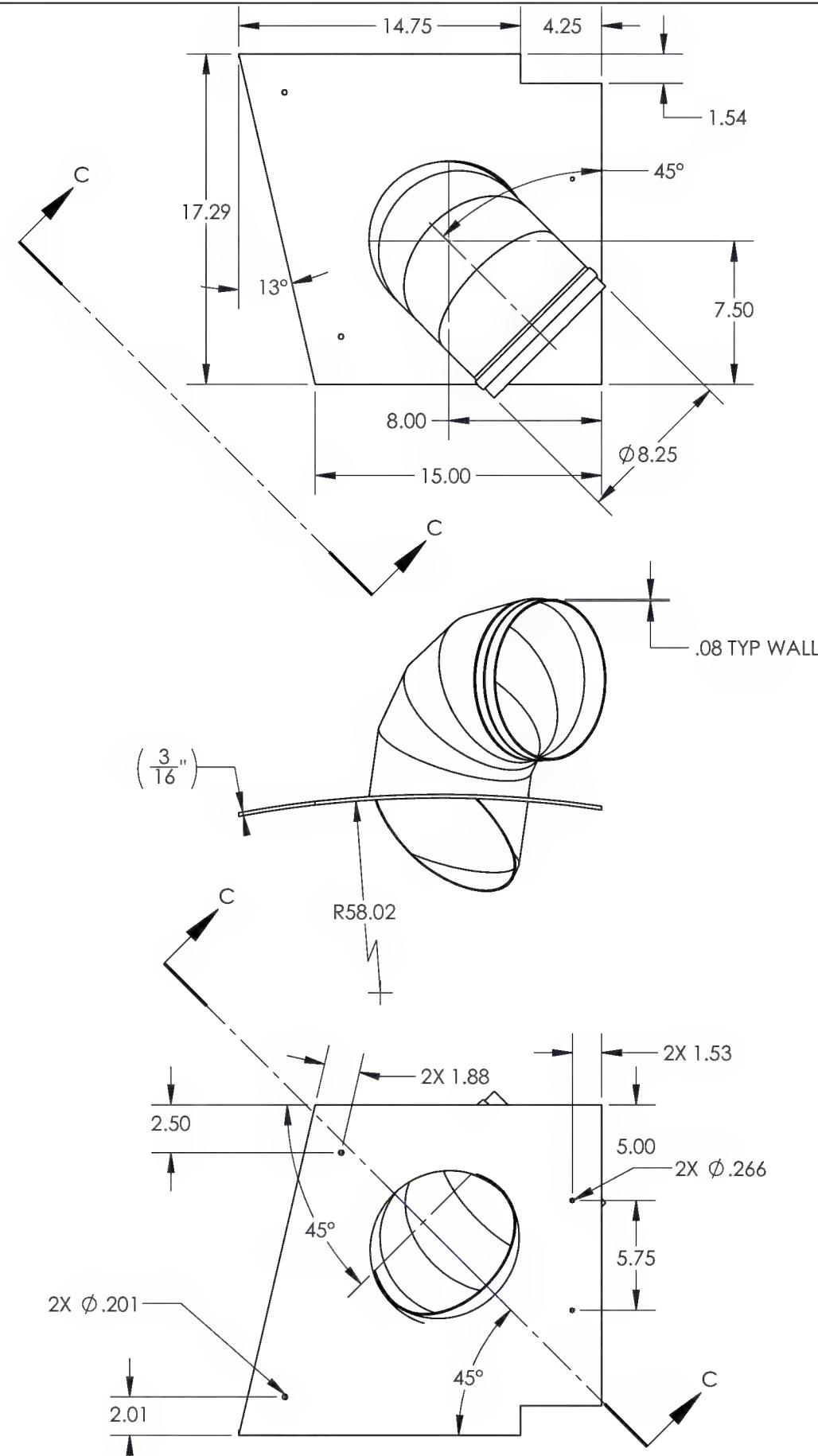
RB RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-41 REV 1	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
DRAWN BY: GILBERT APPROVED <i>D. Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:8	DATE 2/4/2011
SHEET 22 OF 32	

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REV	REVISIONS	
DESCRIPTION	DATE	INITIAL APPROVED

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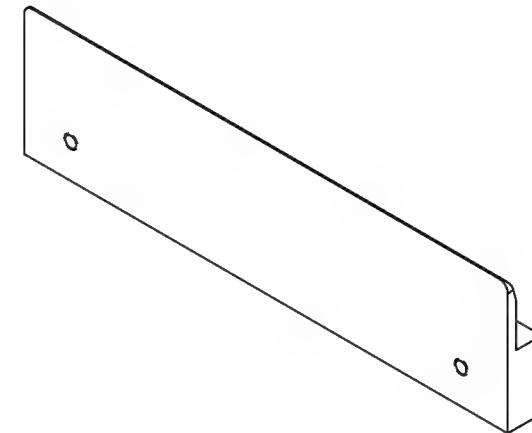
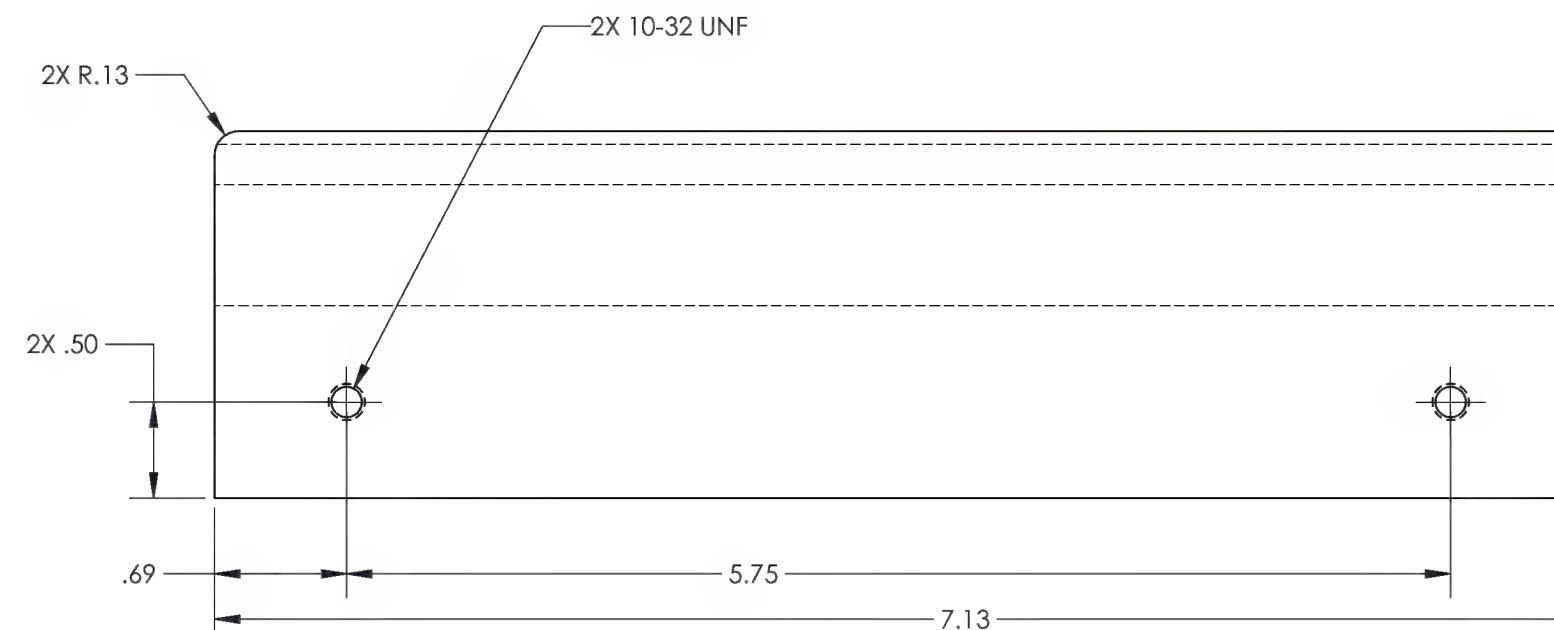
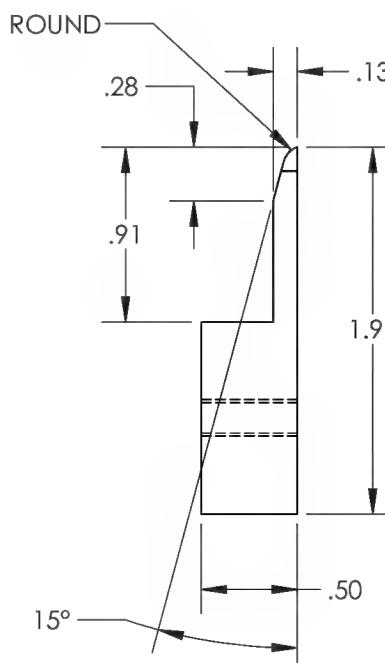


SECTION C-C

RED BARN MACHINE CONDITION AIR ADAPTOR SET	
DWG NO.	REV
RBT18400-43	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005 XX ± .01 X ± .1	APPROVED <i>D. Weil</i>
FRACTIONS ± 1/32	HEAT TREAT
ANGLES ± .5°	FINISH POWDER COAT RED
SPEC RAL 3020	USED ON MODEL
.015 x 45° PR.015 R	FIRE SCOUT MQ-8B
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SHEET 23 OF 32
SCALE 1:8	DATE 2/4/2011

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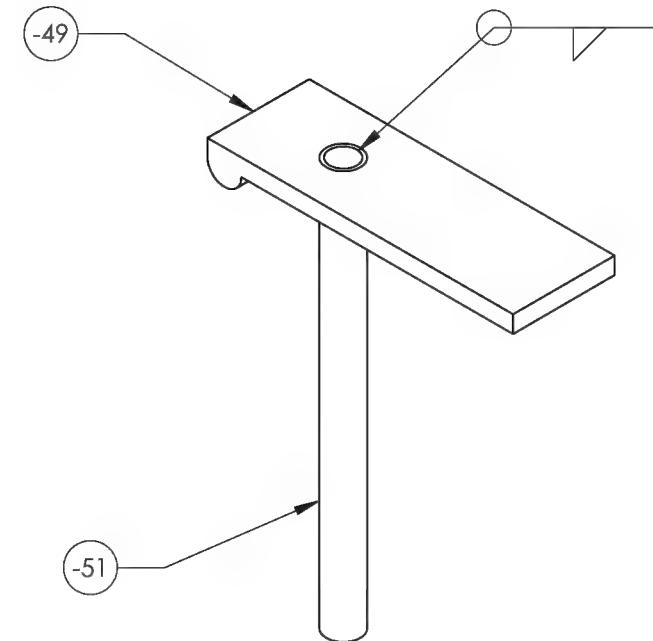


(-45)
RETAINER

RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-45
REVISION	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX \pm .005 XX \pm .01 X \pm .1	APPROVED <i>D. Weil</i>
FRACTIONS \pm 1/32 .015 x 45° PR.015 R	HEAT TREAT FINISH
ANGLES \pm .5°	SPEC
1. BREAK ALL SHARP EDGES	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:1	DATE 2/4/2011
SHEET 24 OF 32	

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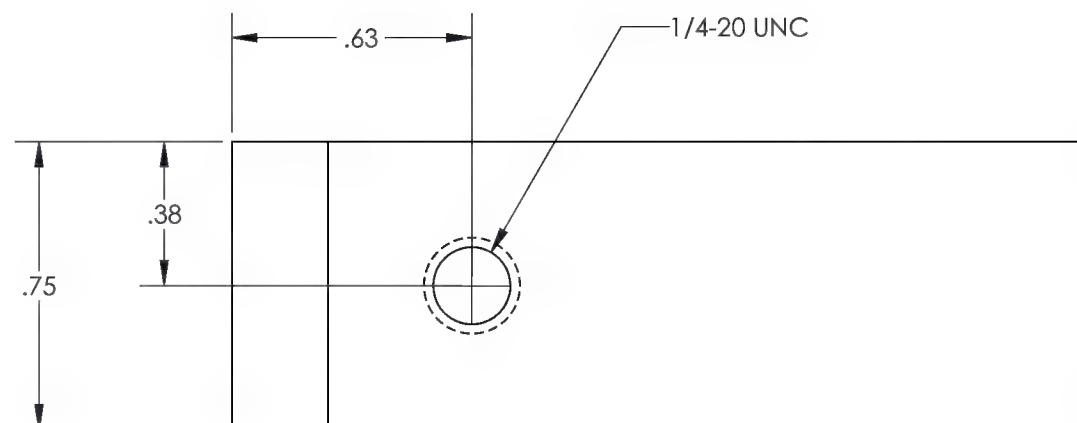
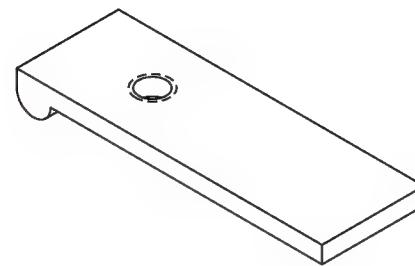
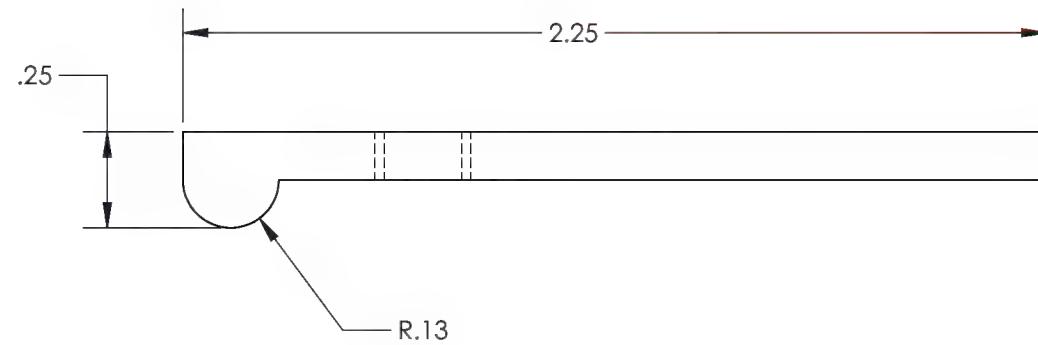


-47
LATCH WELDMENT

RED BARN MACHINE	
CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-47
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX \pm .005	APPROVED <i>D. Weil</i>
XX \pm .01	HEAT TREAT
X \pm .1	FINISH
	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:1	DATE 2/4/2011
	SHEET 25 OF 32

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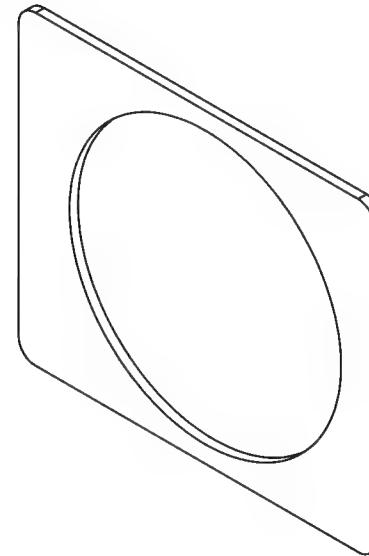
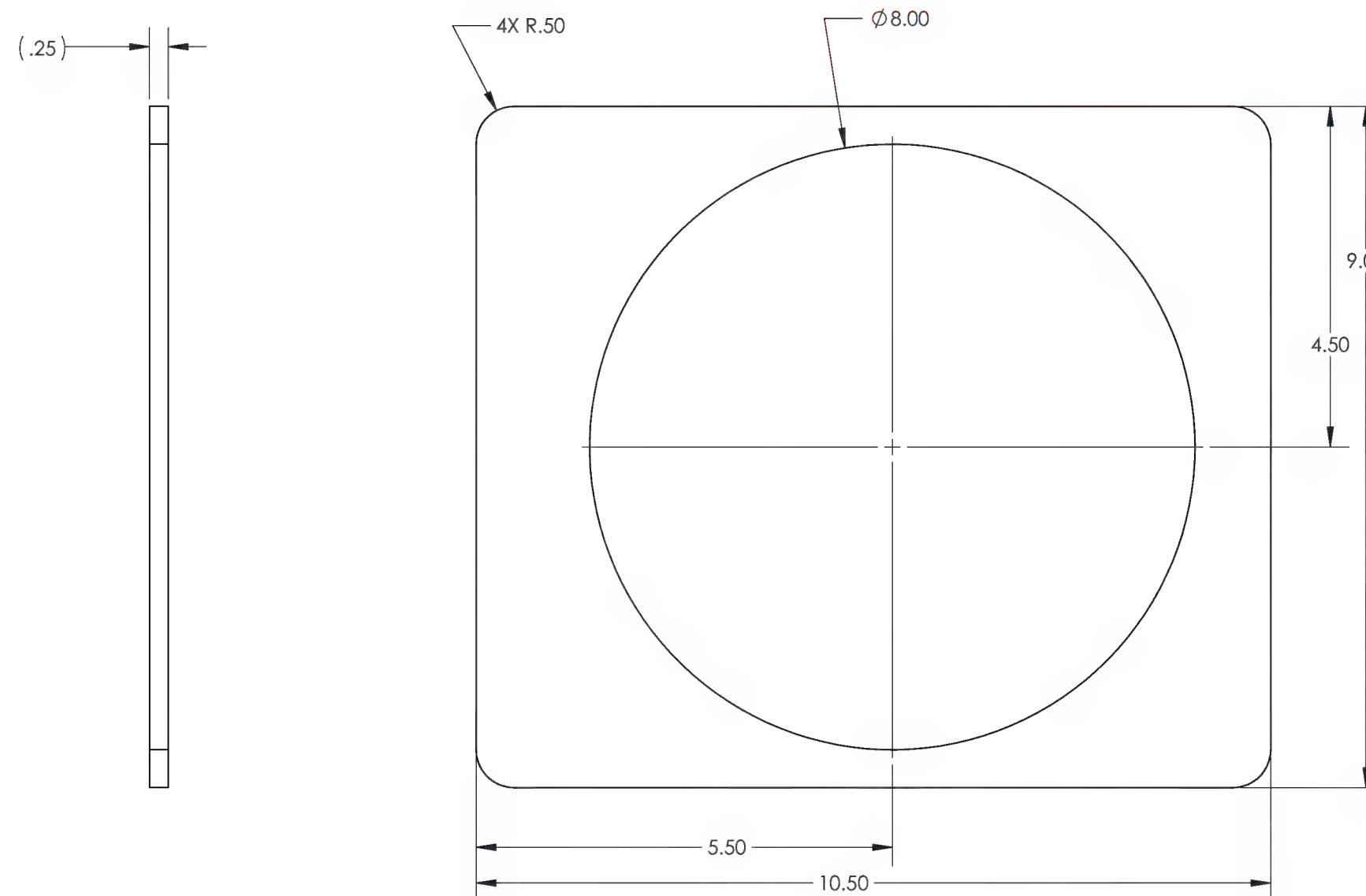
(-49)

LATCH PLATE

RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-49
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX ± .005 FRACTIONS ± 1/32 XX ± .01 ANGLES ± .5° X ± .1	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	2:1
DATE	2/4/2011
SHEET 26 OF 32	

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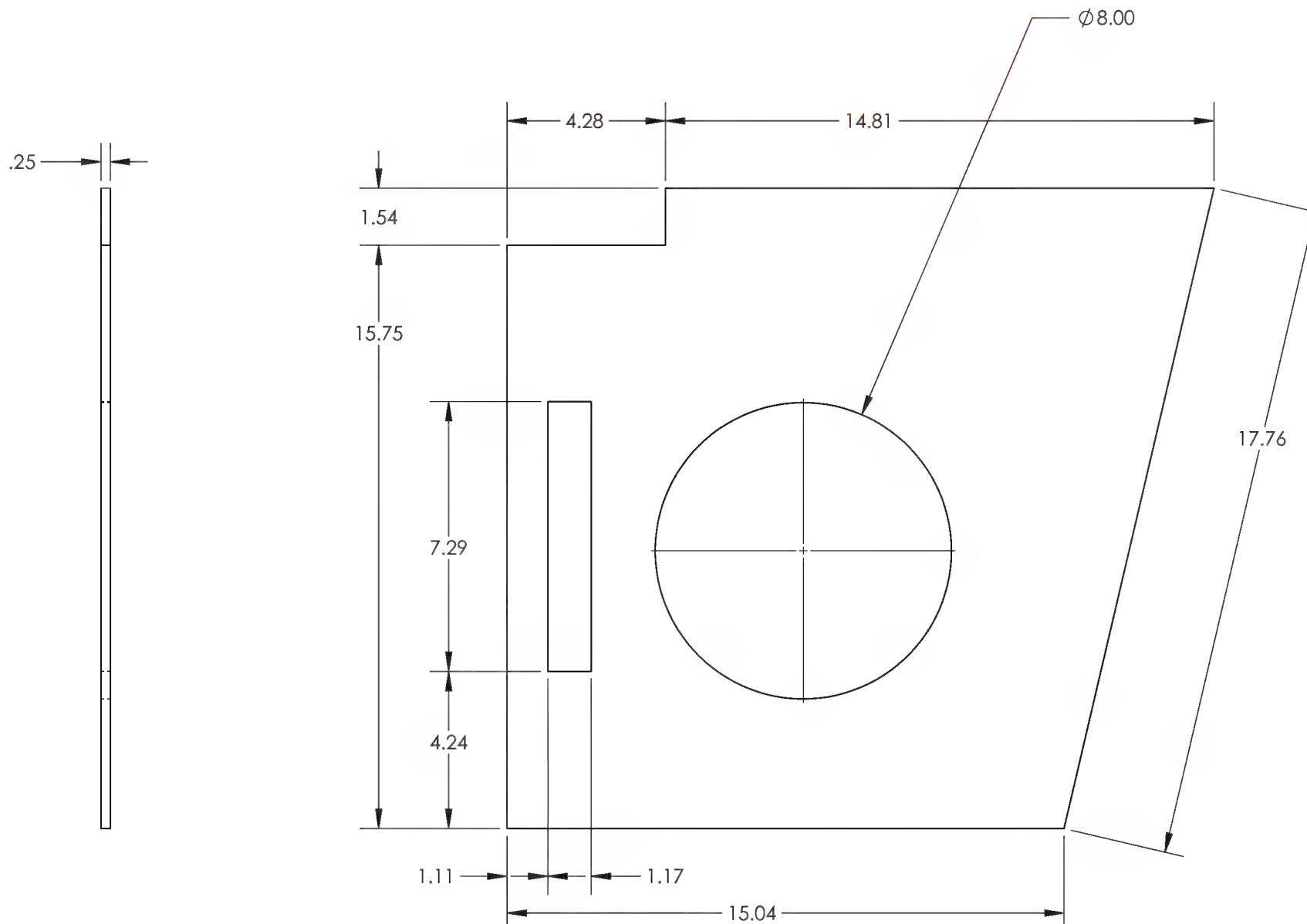
-101

AVIONICS DUCT FOAM

RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-101
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS XXX \pm .005 FRACTIONS \pm 1/32 XX \pm .01 ANGLES \pm .5° X \pm .1	
DRAWN BY: GILBERT APPROVED: D. Weil	
HEAT TREAT FINISH SPEC	
USED ON MODEL FIRE SCOUT MQ-8B	
SCALE	1:2
DATE	2/4/2011
SHEET 27 OF 32	

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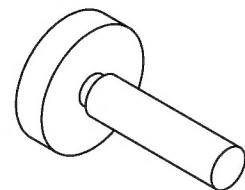
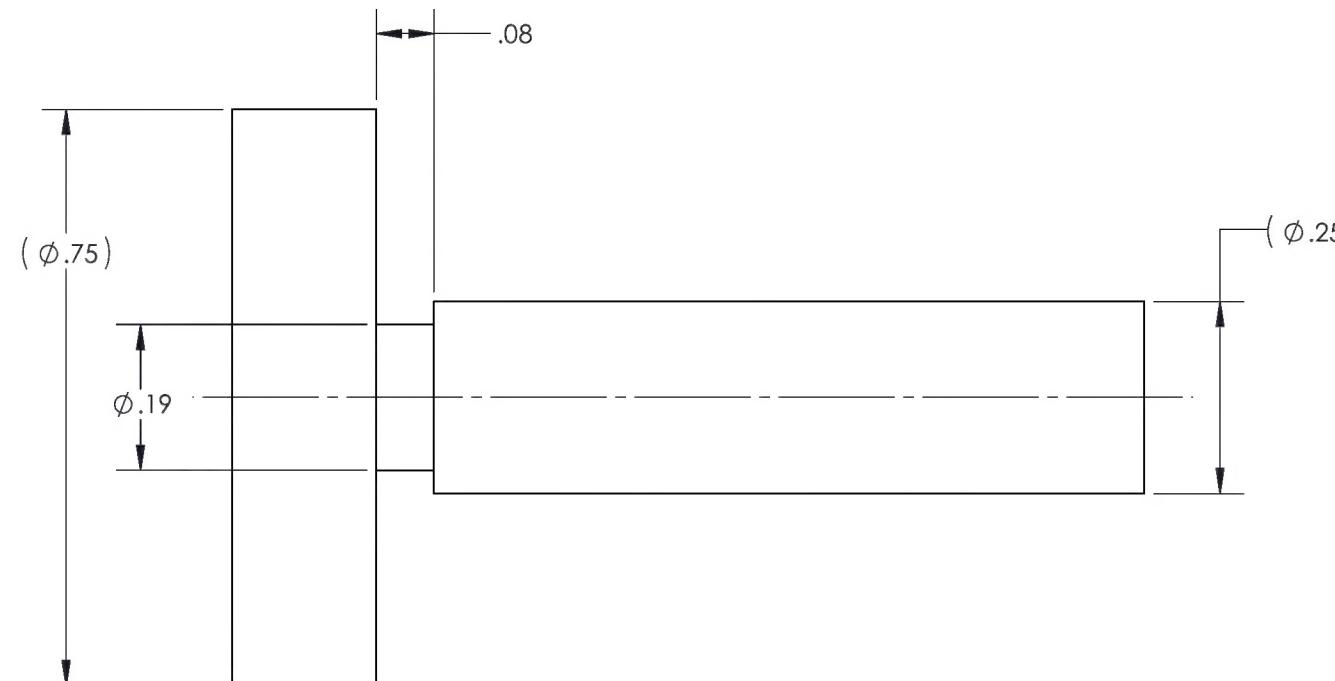
(-103)

ENGINE DUCT FOAM

 RED BARN MACHINE	
TITLE CONDITIONED AIR ADAPTER SET	
DWG NO. RBT18400-103	REV 1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX \pm .005 XX \pm .01 X \pm .1	APPROVED <i>D. Weil</i>
FRACTIONS \pm 1/32 ANGLES \pm .5°	HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	USED ON MODEL FIRE SCOUT MQ-8B
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE 2/4/2011
	SHEET 28 OF 32

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WILL NOT BE KEPT UP TO DATE



-105

THUMB SCREW

 RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-105
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS $XXX \pm .005$	APPROVED <i>D. Weil</i>
$XX \pm .01$	HEAT TREAT
$X \pm .1$	FINISH
SPEC	USED ON MODEL
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ PR.015 R	FIRE SCOUT MQ-8B
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 4:1	DATE 2/4/2011
	SHEET 29 OF 32

1.00 TEXT HEIGHT

REMOVE
BEFORE
FLIGHT

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WILL NOT BE KEPT UP TO DATE

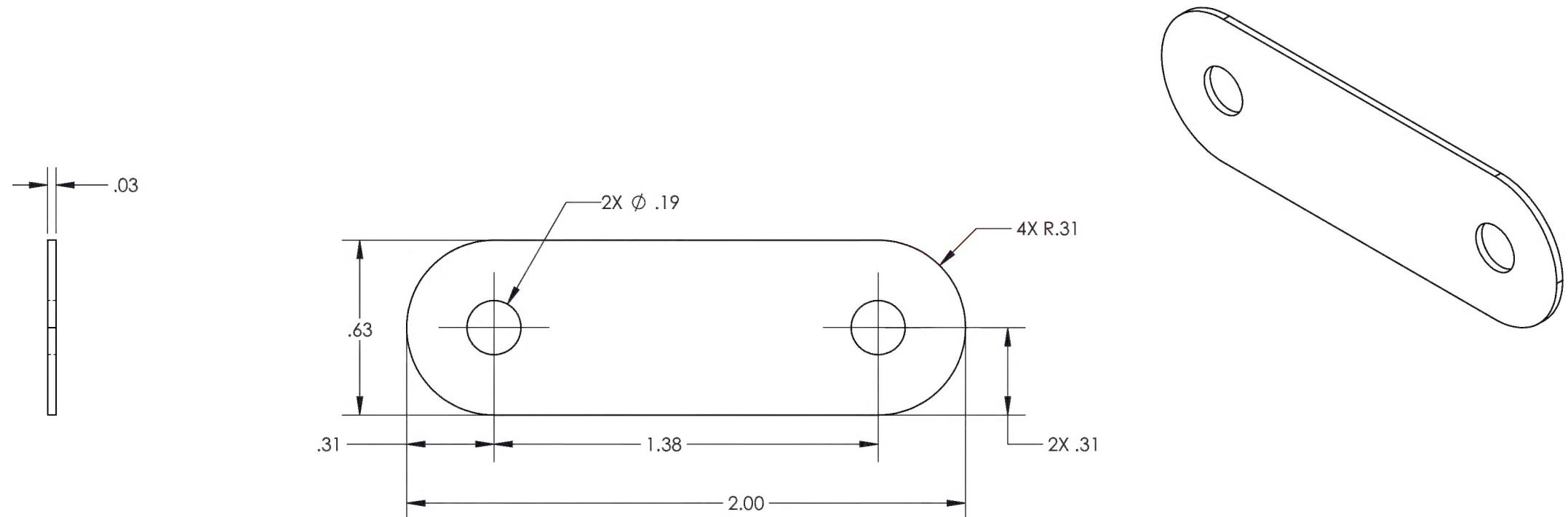
-111

STENCIL

RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-111
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX ± .005	APPROVED: <i>D Weil</i>
XX ± .01	HEAT TREAT
X ± .1	FINISH
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR.015 R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
USED ON MODEL	FIRE SCOUT MQ-8B
SCALE 1:1	DATE 2/4/2011
SHEET 30 OF 32	

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WILL NOT BE KEPT UP TO DATE



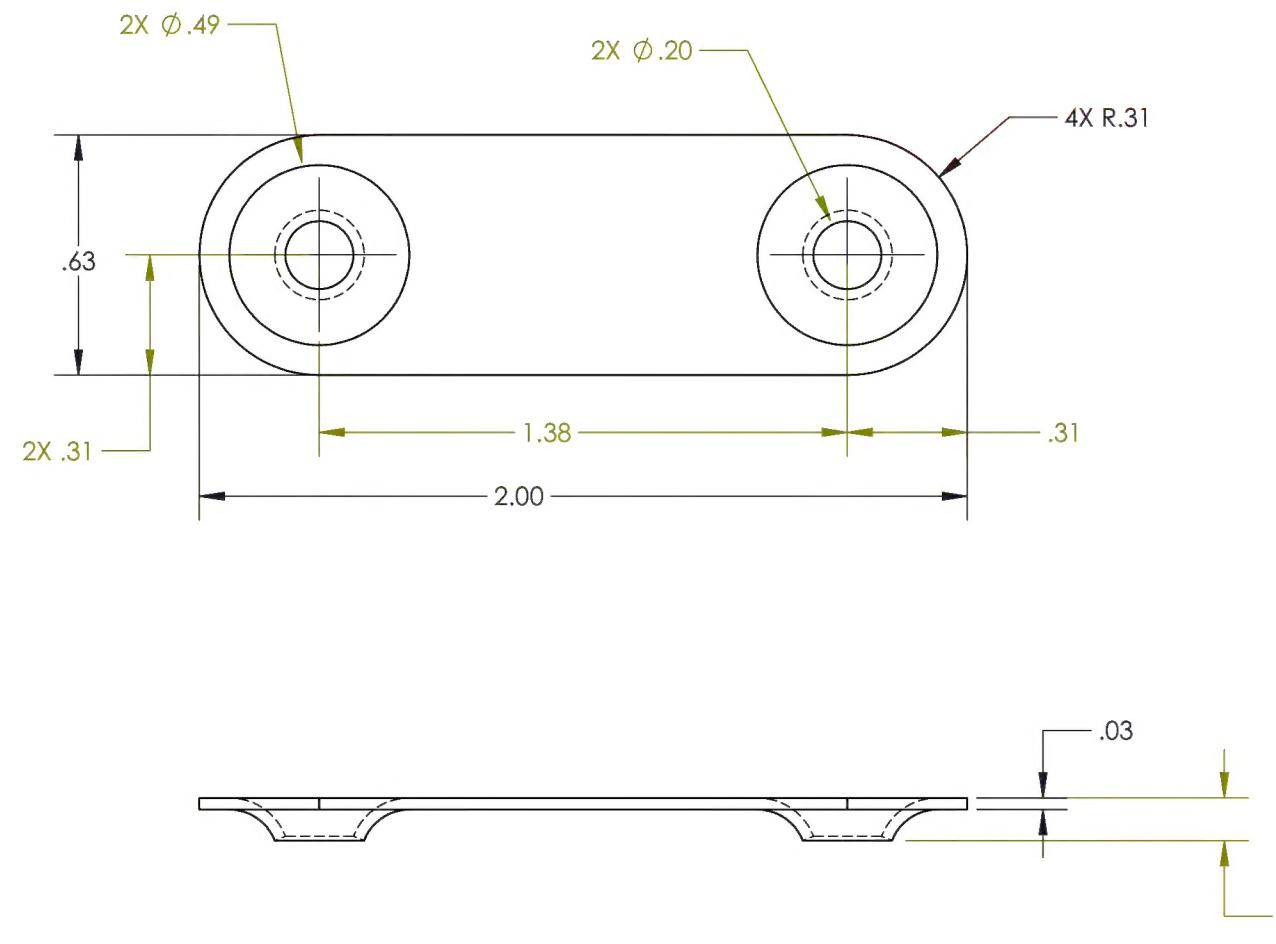
-113

HOSE RETAINER

RED BARN MACHINE	
TITLE: CONDITIONED AIR ADAPTER SET	
DWG NO.	RBT18400-113
REV	1
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS XXX ± .005	
FRACTIONS 1/32	
ANGLES ± .5°	
APPROVED D Weil	
HEAT TREAT	
FINISH	
SPEC	
USED ON MODEL	
FIRE SCOUT MQ-8B	
SCALE	1:1
DATE	2/4/2011
SHEET 31 OF 32	

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HOSE RETAINER, BOTTOM

-115

RB RED BARN MACHINE	
TITLE	CONDITIONED AIR ADAPTER SET
DWG NO.	RBT18400-115
REV	1
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: GILBERT
TOLERANCES ON: DECIMALS XXX \pm .005 XX \pm .01 X \pm .1	APPROVED D Weil
FRACTIONS \pm 1/32 .015 x 45° PR .015 R	HEAT TREAT FINISH
ANGLES \pm .5°	SPEC
1. BREAK ALL SHARP EDGES	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FIRE SCOUT MQ-8B
SCALE 1:1	DATE 2/4/2011
	SHEET 32 OF 32